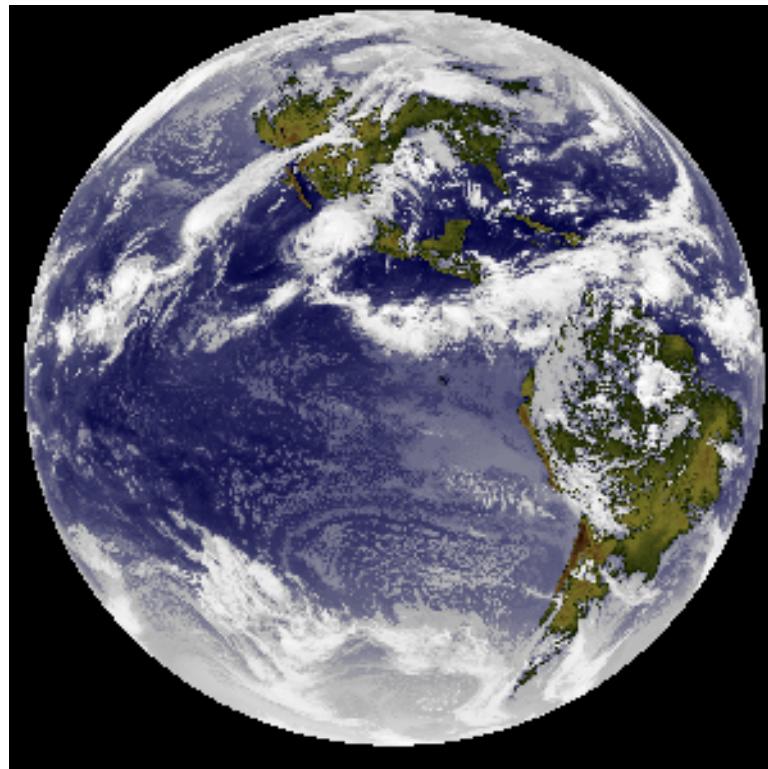


INTERNATIONAL PETROLEUM MONTHLY

May 2000



**Energy Information Administration
Energy Markets and Contingency Information Division**

Preface

The International Petroleum Monthly is a monthly publication that provides current international oil data. This report is published for the use of Members of Congress, Federal agencies, State agencies, industry, and the general public. Publication of this report is in keeping with responsibilities given the Energy Information Administration in Public Law 95-91 (Section 205(a)(2)) that states:

"The Administrator shall be responsible for carrying out a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze and disseminate data and information ..."

The International Petroleum Monthly presents data on international oil production, demand, imports, and stocks. The report has four sections. Section 1 contains time series data on world oil production, and on oil demand and stocks in the Organization for Economic Cooperation and Development (OECD). This section contains annual data beginning in 1990, and monthly data for the most recent two years. Section 2 presents an oil supply/demand balance for the world. This balance is presented in quarterly intervals for the most recent two years and annually for the three years prior to that. Section 3 presents data on oil imports by OECD countries. This section contains annual data for the most recent year, quarterly data for the most recent two quarters, and monthly data for the most recent twelve months. Section 4 presents annual time series data on world oil production and oil stocks, demand, and trade in OECD countries. World oil production and OECD demand data are for the years 1970 through 1999; OECD stocks from 1973 through 1999; and OECD trade from 1989 through 1999.

Data for the United States are developed by the Energy Information Administration's (EIA) Office of Oil and Gas. Data for other countries are derived largely from published sources, including International Energy Agency publications, the EIA International Energy Annual, and the trade press. (See sources after each section.) All data are reviewed by the International Energy Statistics Team of EIA. All data have been converted to units of measurement familiar to the American public. Definitions of oil production and consumption are consistent with other EIA publications.

General information about this publication may be obtained from W. Calvin Kilgore, Director, Office of Energy Markets and End Use, (202) 586-1617, and from Louis D. DeMouy, Director, Integrated Energy Statistics Division, (202) 586-8994. Detailed questions and comments concerning the contents of the International Petroleum Monthly may be directed to Patricia A. Smith (202) 586-6925, or H. Vicky McLaine (202) 586-9412; Oil Market Chronology - Douglas MacIntyre (202) 586-1831.

Oil Market Chronology - April 2000

The following chronology lists international events that hold significance for world petroleum markets. Sources include: Dow Jones (DJ), The New York Times (NYT), The Washington Post (WP), and The Wall Street Journal (WSJ).

- April 5** The government of Iran announces that it has seized a tanker which was smuggling Iraqi oil through Iranian territorial waters. A spokesman for the United States Department of State welcomes the action. (NYT, WP)
- April 6** PetroChina, a holding company which serves as a stock market listing entity for the China National Petroleum Corporation, launches an initial public offering (IPO) on the New York and Hong Kong stock exchanges. The IPO is valued at nearly \$3 billion, scaled back drastically in size due to a lack of investor interest. (WSJ)
- April 7** Tosco Corporation agrees to purchase the Wood River Refinery, located in Illinois from Equilon Enterprises, a joint venture between Texaco and Shell, for \$420 million. Equilon officials say the sale is part of a shift to concentrate on the West Coast petroleum products market. (NYT)
- April 12** Several Chief Executive Officers (CEOs) of major United States oil companies meet with senior Saudi Arabian officials to discuss possible investments in natural gas and petrochemical projects. The firms represented at the meetings include Chevron, Conoco, ExxonMobil, Marathon Oil, Phillips Petroleum, and Texaco. The Saudi government announces, in conjunction with the meetings, a package of legal changes that will make Saudi Arabia more open to foreign investors. Complete foreign ownership will be allowed for some types of projects, and the maximum corporate tax rate for foreign enterprises will be reduced to 15 percent. (WP)
- April 14** BP Amoco receives approval from the Federal Trade Commission (FTC) for its \$28 billion takeover of Atlantic Richfield Corporation (ARCO). As part of the approval, ARCO has agreed to sell its crude oil production operations in Alaska to Phillips Petroleum in a deal valued at \$6.5 billion. (WP, WSJ)
- April 18** The China National Petroleum Corporation announces an agreement with Petroleos de Venezuela (PDVSA) to begin purchases of Orimulsion, a power-plant fuel made from bitumen from Venezuela's Orinoco region. (NYT)
- Amerada Hess Corporation announces an agreement with the Algerian state-owned oil company Sonatrach to develop three oil fields in central Algeria. The \$555 million project will develop the El Gassi, El Agreb, and Zotti fields. (NYT)
- April 19** The United States Commerce Department reports a record \$29.2 billion trade deficit for February 2000. This is due largely to the sharp increase in prices for crude oil imports, which added \$1.3 billion to the monthly trade deficit. (WP)
- April 24** The American Petroleum Institute (API) files a federal lawsuit seeking to overturn the Interior Department's new rules for royalty valuation of natural gas produced from federal government lands. The Independent Petroleum Association of America (IPAA), which represents independent oil and gas companies, also has filed a similar lawsuit. (DJ)

- April 25** Royal Dutch Shell agrees to pay a \$2 million fine for transporting smuggled Iraqi oil aboard a Russian tanker. The tanker, *Akademik Pustovoit*, was detained by United States naval vessels enforcing United Nations sanctions against Iraq on April 5. Defense Department spokesman Kenneth Bacon states that Shell appeared to have acquired the Iraqi oil unwittingly, and would therefore be allowed to keep the cargo. The fine will go into a United Nations fund for the enforcement of sanctions. (NYT, WP)
- April 28** Azerbaijan, Georgia, and Turkey sign a final governmental agreement in Washington on the planned Baku-Ceyhan pipeline, which would transport oil from the Caspian Sea region to Western markets through the Turkish port of Ceyhan. The agreement covers the issues of transit fees, security, and governmental liability involved in the project. (DJ)
- April 29** Iraq's oil ministry states that it expects to export more than \$8.5 billion of oil in the current six-month phase of the United Nations "oil-for-food" program. (DJ)
- April 30** Total Fina Elf announces that it intends to invest \$8 billion in Saudi Arabia's natural gas sector. The announcement comes following a meeting between Total Chairman Thierry Desmarest and Saudi Arabia's Oil and Gas Policy Committee, which includes Foreign Minister Saud al-Faisal and Petroleum Minister Ali Naimi. The Saudi government has been seeking foreign investment in natural gas and petrochemical projects. (DJ)
The National Iranian Oil Company (NIOC) signs a 25-year agreement with a consortium of multinational firms for a set of studies dealing with its natural gas sector. The topics will include estimating reserves and assessment of Iran's prospects for both increased domestic use and export of natural gas. Firms involved in the agreement include BP Amoco, Royal Dutch Shell, British Gas, and Gaz de France, among others. (DJ)

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1. Annual and Monthly Oil Data

Figure 1. World Crude Oil Production, Monthly

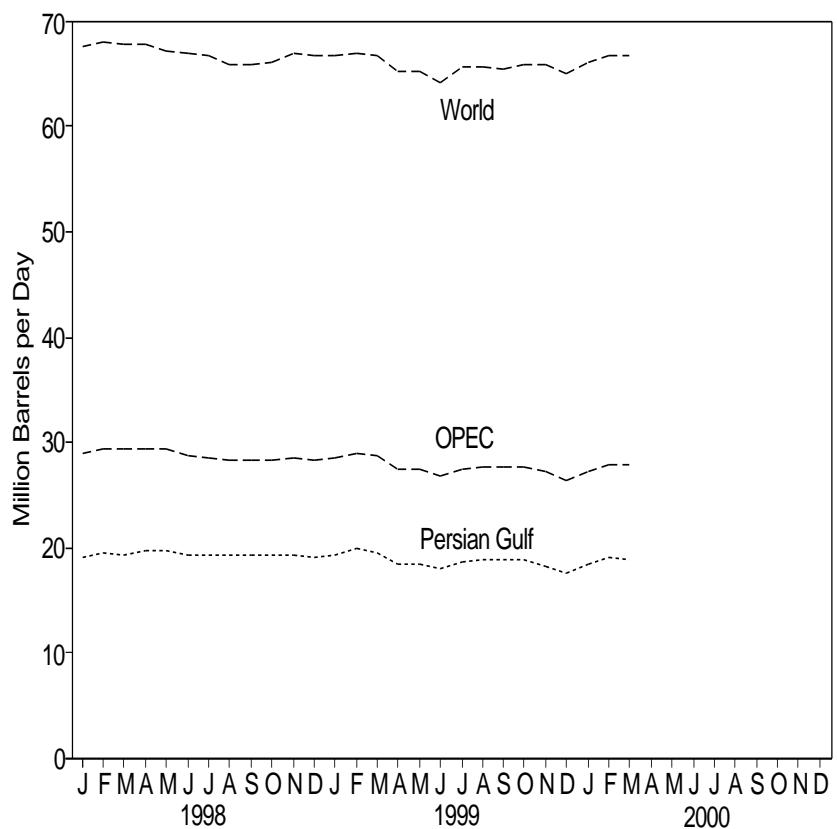
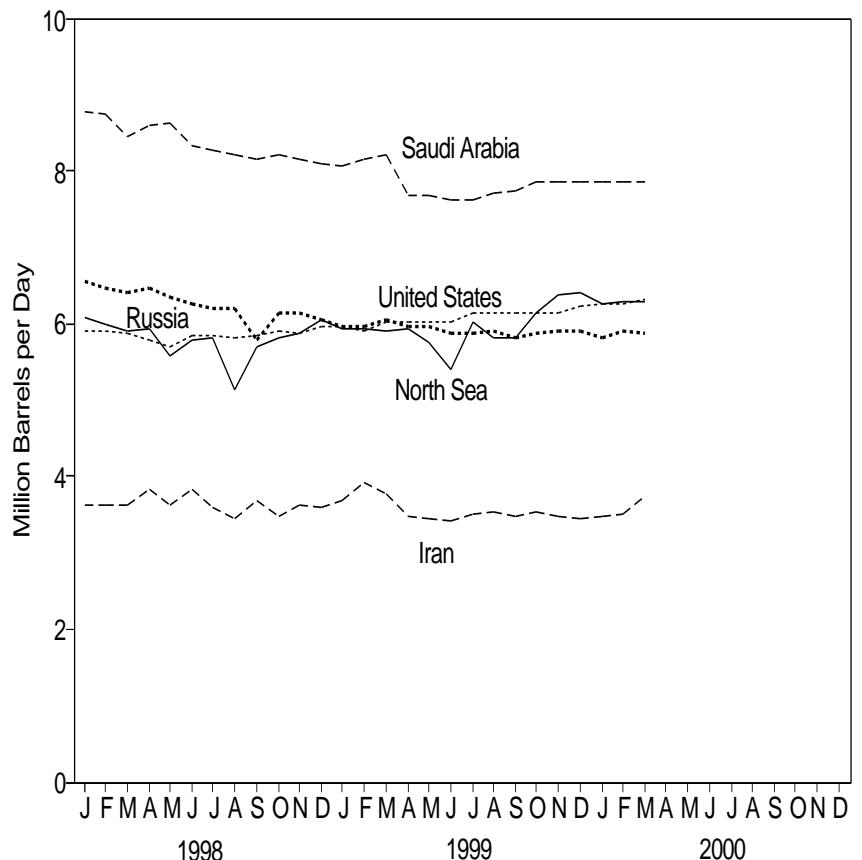


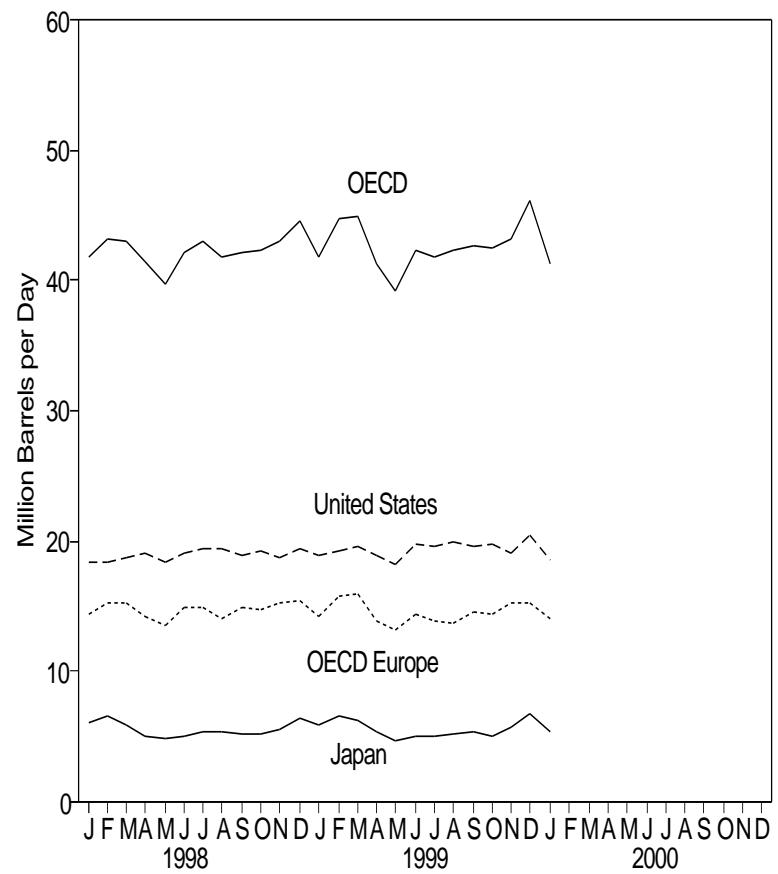
Figure 2. Leading Crude Oil Producers, Monthly



Source: Tables 1.1a-1.1c

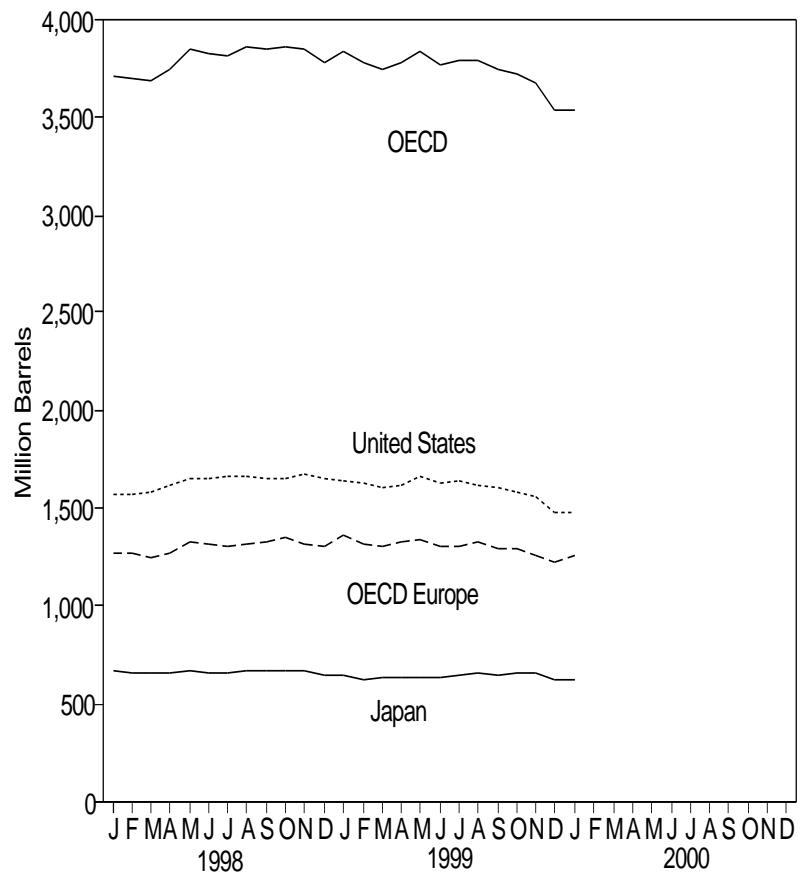
Source: Tables 1.1a-1.1c

Figure 3. OECD Oil Consumption, Monthly



Source: Table 1.7

Figure 4. OECD Oil Stocks, Monthly



Source: Table 1.5

Table 1.1a World Crude Oil Production (Including Lease Condensate), 1990-Present
 (Thousand Barrels per Day)

	Algeria	Indo-nesia	Iran	Iraq	Kuwait ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	United Arab Emirates	Vene-zuela	Total OPEC
1990 Average.....	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1991 Average.....	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average.....	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average.....	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average.....	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average.....	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average.....	1,277	1,520	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,710
1998 Average.....	1,246	1,518	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,774
1999 January.....	1,230	1,540	3,665	2,515	1,995	1,360	2,080	695	8,065	2,240	3,020	28,405
February.....	1,240	1,520	3,925	2,655	2,005	1,360	2,010	695	8,165	2,330	3,000	28,905
March.....	1,250	1,530	3,795	2,430	2,020	1,360	2,160	775	8,220	2,235	2,960	28,735
April.....	1,210	1,530	3,485	2,655	1,785	1,320	2,160	705	7,665	2,180	2,800	27,495
May.....	1,190	1,530	3,435	2,705	1,815	1,300	2,190	685	7,665	2,130	2,780	27,425
June.....	1,180	1,510	3,415	2,355	1,830	1,290	2,150	655	7,610	2,110	2,760	26,865
July.....	1,180	1,490	3,515	2,805	1,830	1,290	2,130	685	7,610	2,130	2,760	27,425
August.....	1,190	1,480	3,535	2,855	1,860	1,290	2,140	685	7,710	2,140	2,760	27,645
September.....	1,190	1,480	3,485	2,855	1,885	1,300	2,150	685	7,735	2,145	2,760	27,670
October.....	1,190	1,480	3,535	2,670	1,925	1,310	2,170	685	7,845	2,145	2,760	27,715
November.....	1,190	1,480	3,485	2,205	1,905	1,320	2,160	685	7,865	2,105	2,780	27,180
December.....	1,190	1,480	3,435	1,405	1,922	1,330	2,050	695	7,863	2,155	2,780	26,305
1999 Average.....	1,202	1,504	3,557	2,508	1,898	1,319	2,130	694	7,833	2,169	2,826	27,641
2000 January.....	1,190	1,460	3,465	2,215	1,962	1,330	2,010	695	7,863	2,245	2,780	27,215
February.....	1,190	1,430	3,525	2,595	2,015	1,380	2,060	705	7,865	2,250	2,840	27,855
March.....	1,190	1,430	3,735	2,215	2,040	1,390	2,080	705	7,865	2,300	2,840	27,790
2000 Average.....	1,190	1,440	3,577	2,333	2,005	1,366	2,050	702	7,864	2,266	2,819	27,612

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In March 2000, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 580 thousand barrels per day. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

Notes: •OPEC=Organization of Petroleum Exporting Countries. •Monthly data are often preliminary and also may not average to the annual totals due to rounding.

Sources: See end of Section 1.

Table 1.1b World Crude Oil Production (Including Lease Condensate), 1990-Present
 (Thousand Barrels per Day)

	Norway	United Kingdom	North Seal/	Angola	Argen-tina	Austra- lia	Brazil	Canada	China	Colombia	Ecuador
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 Average.....	3,143	2,518	5,830	714	834	588	841	1,922	3,200	652	388
1998 Average.....	3,017	2,616	5,806	735	847	544	969	1,981	3,198	733	375
1999 January.....	3,002	2,721	5,922	780	815	509	1,128	1,892	3,230	843	370
February.....	3,004	2,728	5,937	780	820	555	1,090	1,878	3,235	830	380
March.....	2,975	2,708	5,900	790	810	463	1,110	1,835	3,215	830	350
April.....	2,953	2,746	5,921	770	815	474	1,080	1,832	3,190	840	350
May.....	2,948	2,597	5,765	755	805	506	1,070	1,882	3,190	815	370
June.....	2,727	2,429	5,396	755	805	500	1,100	1,936	3,190	815	367
July.....	3,094	2,672	6,011	745	805	496	1,082	1,959	3,261	815	365
August.....	2,868	2,699	5,819	750	805	555	1,080	1,906	3,170	819	380
September.....	2,864	2,670	5,808	760	788	578	1,106	1,857	3,145	821	380
October.....	3,070	2,762	6,135	770	790	566	1,096	1,892	3,177	820	390
November.....	3,300	2,782	6,378	770	785	594	1,090	2,006	3,245	795	380
December.....	3,404	2,697	6,390	770	785	673	1,090	2,002	3,225	765	390
1999 Average.....	3,018	2,684	5,949	766	802	539	1,094	1,907	3,206	817	373
2000 January.....	3,233	2,721	6,268	R810	785	717	1,090	1,979	3,250	755	390
February.....	R3,348	R2,644	R6,284	R820	R735	R781	1,090	1,991	3,280	R760	390
March.....	3,302	2,664	6,296	820	735	730	1,090	1,986	3,280	740	390
2000 Average.....	3,293	2,677	6,283	817	752	741	1,090	1,985	3,270	751	390

1/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

R=Revised data.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.1c World Crude Oil Production (Including Lease Condensate), 1990-Present
 (Thousand Barrels per Day)

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other ^{1/} / World
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253 60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274 60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,229 60,213
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,279 60,236
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,380 60,991
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,414 62,335
1996 Average.....	922	368	651	695	2,855	883	5,850	--	582	6,465	3,490 63,711
1997 Average.....	856	370	675	700	3,023	904	5,920	--	561	6,452	3,719 65,690
1998 Average.....	834	361	661	733	3,070	900	5,854	--	553	6,252	3,955 66,962
1999 January.....	860	340	694	720	3,144	880	5,962	--	550	E5,954	3,870 66,669
February.....	860	340	686	720	3,020	900	5,897	--	550	E5,984	3,858 67,021
March.....	870	340	645	720	3,053	910	6,024	--	540	E6,048	3,871 66,842
April.....	870	340	645	720	2,893	910	6,021	--	540	E5,977	3,860 65,321
May.....	860	340	632	720	2,926	900	6,036	--	540	E5,985	3,847 65,149
June.....	850	340	650	730	2,801	910	6,026	--	540	E5,880	3,890 64,106
July.....	840	340	680	690	2,920	910	6,148	--	540	E5,873	3,923 65,583
August.....	840	340	652	730	2,848	890	6,139	--	540	E5,912	3,947 65,515
September...	850	330	655	730	2,861	900	6,141	--	530	E5,820	3,983 65,439
October....	840	340	635	720	2,766	890	6,153	--	530	E5,878	4,066 65,865
November....	840	340	625	720	2,852	900	6,153	--	530	E5,895	4,076 65,858
December....	840	350	635	720	2,793	890	6,230	--	530	E5,899	R4,060 R65,054
1999 Average.....	852	340	653	720	2,906	899	6,079	--	538	E5,925	3,938 R65,697
2000 January....	840	350	635	720	3,032	890	6,239	--	530	E5,833	R4,139 R66,153
February....	R830	350	R621	720	2,897	R915	6,248	--	530	RE5,889	R4,090 R66,784
March.....	830	350	623	720	2,998	915	6,321	--	530	PE5,869	4,146 66,830
2000 Average.....	833	350	627	720	2,978	906	6,270	--	530	PE5,863	4,126 66,582

^{1/} Other is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC" (Table 1.1a) and all other countries listed (Tables 1.1b and 1.1c). The total "North Sea" is not subtracted from the world total, though Norway and the United Kingdom have been subtracted.

-- = Not applicable. R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.2 OPEC Crude Oil Production (Excluding Condensate), 1990-Present
 (Thousands Barrels per Day)

	Algeria	Indo-nesia	Iran	Iraq	Kuwait ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	United Arab Emirates	Vene-zuela	Total OPEC	
1990	Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,100	22,461
1991	Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992	Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993	Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994	Average...	750	1,334	3,583	548	2,025	1,378	1,821	380	8,120	2,113	2,542	24,594
1995	Average...	767	1,343	3,608	555	2,057	1,390	1,878	407	8,231	2,148	2,710	25,094
1996	Average...	812	1,367	3,651	574	2,062	1,401	1,885	475	8,218	2,198	2,898	25,541
1997	Average...	847	1,355	3,629	1,150	2,007	1,446	2,017	515	8,362	2,236	3,240	26,804
1998	Average...	816	1,338	3,599	2,145	2,085	1,390	2,043	661	8,389	2,265	3,127	27,858
1999	January...	800	1,360	3,630	2,510	1,995	1,360	1,970	660	8,065	2,160	2,980	27,490
	February..	810	1,340	3,890	2,650	2,005	1,360	1,900	660	8,165	2,250	2,960	27,990
	March.....	820	1,350	3,760	2,425	2,020	1,360	2,050	740	8,220	2,155	2,920	27,820
	April.....	780	1,350	3,450	2,650	1,785	1,320	2,050	670	7,665	2,100	2,760	26,580
	May.....	760	1,350	3,400	2,700	1,815	1,300	2,080	650	7,665	2,050	2,740	26,510
	June.....	750	1,330	3,380	2,350	1,830	1,290	2,040	620	7,610	2,030	2,720	25,950
	July.....	750	1,310	3,480	2,800	1,830	1,290	2,020	650	7,610	2,050	2,720	26,510
	August....	760	1,300	3,500	2,850	1,860	1,290	2,030	650	7,710	2,060	2,720	26,730
	September..	760	1,300	3,450	2,850	1,885	1,300	2,040	650	7,735	2,065	2,720	26,755
	October..	760	1,300	3,500	2,665	1,925	1,310	2,060	650	7,845	2,065	2,720	26,800
	November..	760	1,300	3,450	2,200	1,905	1,320	2,050	650	7,865	2,025	2,740	26,265
	December..	760	1,300	3,400	1,400	1,922	1,330	1,940	660	7,863	2,075	2,740	25,390
1999	Average...	772	1,324	3,522	2,503	1,898	1,319	2,020	659	7,833	2,089	2,786	26,726
2000	January...	760	1,280	3,430	2,210	1,962	1,330	1,900	660	7,863	2,165	2,740	26,300
	February..	760	1,250	3,490	2,590	2,015	1,380	1,950	670	7,865	2,170	2,800	26,940
	March....	760	1,250	3,700	2,210	2,040	1,390	1,970	670	7,865	2,220	2,800	26,875
2000	Average...	760	1,260	3,541	2,331	2,005	1,366	1,940	667	7,864	2,185	2,780	26,700

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In March 2000, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 580 thousand barrels per day. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

Notes: •OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

•Monthly data are often preliminary and also may not average to the annual totals due to rounding.

Sources: See end of Section 1.

Table 1.3 World Natural Gas Plant Liquids Production, 1990-Present
 (Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,974
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,180
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,292
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	185	--	1,830	1,082	1,295	1,501	5,576
1997 Average.....	160	636	388	712	195	--	1,817	1,152	1,384	1,589	5,721
1998 Average.....	155	651	424	755	220	--	1,759	1,225	1,449	1,662	5,866
1999 January.....	155	669	453	685	225	--	1,656	R1,160	R1,382	R1,625	R5,758
February.....	155	650	466	685	225	--	1,722	R1,160	R1,382	R1,625	R5,872
March.....	155	632	469	695	225	--	1,779	R1,170	R1,392	R1,635	R5,896
April.....	155	625	457	655	225	--	1,786	R1,130	R1,352	R1,595	R5,847
May.....	155	658	451	655	225	--	1,768	R1,135	R1,357	R1,600	R5,798
June.....	155	612	440	650	225	--	1,827	R1,135	R1,357	R1,600	R5,773
July.....	155	655	441	650	225	--	1,880	R1,140	R1,362	R1,605	R5,966
August.....	155	667	418	660	225	--	1,838	R1,155	R1,377	R1,620	R5,851
September....	155	628	414	660	225	--	1,911	R1,155	R1,377	R1,620	R5,928
October.....	155	658	414	665	225	--	1,938	R1,160	R1,382	R1,625	R5,983
November....	155	675	429	665	225	--	1,939	R1,160	R1,382	R1,625	R6,062
December....	155	707	417	665	225	--	1,955	R1,160	R1,382	R1,625	R6,093
1999 Average.....	155	653	439	666	225	--	1,834	R1,152	R1,374	R1,617	R5,902
2000 January.....	155	701	463	665	225	--	1,942	R1,160	R1,382	R1,625	R6,162
February.....	155	694	449	665	225	--	RE1,981	R1,165	R1,387	R1,630	R6,131
March.....	155	689	436	665	225	--	RE1,953	1,165	1,387	1,630	6,115
2000 Average.....	155	695	449	665	225	--	E1,958	1,163	1,385	1,628	6,136

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia. Excludes fuel ethanol blended into finished motor gasoline.

^{2/} See Appendix A for countries in this group.

^{3/} OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

-- = Not applicable. R=Revised data. E=Estimated.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.4 World Oil Supply, 1990-Present
 (Thousand Barrels per Day)

	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1990 Average.....	9,677	16,249	17,232	24,536	66,754
1991 Average.....	9,883	15,704	16,747	24,625	66,632
1992 Average.....	9,768	17,010	17,871	25,818	66,961
1993 Average.....	9,602	17,792	18,505	26,610	67,348
1994 Average.....	9,413	18,072	18,745	27,031	68,228
1995 Average.....	9,400	18,351	19,069	27,566	69,837
1996 Average.....	9,445	18,486	19,237	28,018	71,390
1997 Average.....	9,461	19,284	20,067	29,355	73,650
1998 Average.....	9,278	20,599	21,282	30,492	75,151
1999 January.....	E8,916	R20,407	R21,037	R30,086	R74,828
February.....	E9,021	R21,007	R21,387	R30,586	R75,303
March.....	E9,020	R20,717	R21,234	R30,426	R75,026
April.....	E8,951	R19,677	R20,424	R29,146	R73,452
May.....	E9,013	R19,642	R20,389	R29,081	R73,302
June.....	E9,010	R19,182	R19,923	R28,521	R72,277
July.....	E8,915	R19,787	R20,418	R29,086	R73,806
August.....	E9,104	R20,012	R20,631	R29,321	R73,815
September.....	E9,044	R20,017	R20,694	R29,346	R73,775
October.....	E9,191	R20,037	R20,664	R29,396	R74,318
November.....	E9,356	R19,482	R20,169	R28,861	R74,537
December.....	E9,289	R18,707	R19,454	R27,986	R73,677
1999 Average.....	E9,069	R19,884	R20,531	R29,314	R74,005
2000 January.....	E9,069	R19,677	R20,394	R28,896	R74,779
February.....	RE9,255	R20,192	R20,889	R29,541	R75,395
March.....	PE9,126	20,097	20,594	29,476	75,344
2000 Average.....	PE9,147	19,982	20,617	29,296	75,165

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia. Beginning in 1993, includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

^{2/} See Appendix A for countries in this group.

^{3/} OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: •Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B. •Monthly data are often preliminary and also may not average to the annual total due to rounding.

See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.5 Oil Stocks in OECD Countries, End of Period
(Million Barrels)

		France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1990	December.....	140	172	265	112	1,163	1,621	121	590	73	3,568
1991	December.....	153	160	288	119	1,181	1,617	119	606	65	3,588
1992	December.....	146	174	310	113	1,219	1,592	107	603	67	3,588
1993	December.....	158	163	309	118	1,221	1,647	105	618	69	3,661
1994	December.....	158	164	312	115	1,240	1,653	119	645	69	3,726
1995	December.....	159	162	301	107	1,228	1,563	109	630	71	3,601
1996	December.....	158	152	300	108	1,256	1,507	103	651	74	3,591
1997	December.....	164	147	298	105	1,256	1,560	115	685	74	3,689
1998	December.....	161	153	321	108	1,304	1,647	118	649	66	3,784
1999	January.....	181	154	329	111	1,364	1,639	118	645	72	3,838
	February.....	175	146	320	109	1,323	1,625	118	633	74	3,773
	March.....	179	149	306	109	1,309	1,608	124	634	71	3,746
	April.....	173	153	316	110	1,333	1,615	121	636	75	3,781
	May.....	182	154	317	107	1,342	1,661	121	637	74	3,835
	June.....	177	146	310	102	1,305	1,636	118	638	73	3,771
	July.....	174	145	313	103	1,311	1,639	118	645	76	R3,789
	August.....	178	151	307	109	1,325	1,618	114	661	78	3,796
	September....	173	150	300	106	1,289	1,608	115	652	77	3,741
	October.....	169	151	295	106	R1,291	1,579	117	658	73	R3,719
	November....	169	150	290	104	R1,259	1,563	118	659	76	R3,675
	December....	163	148	287	105	1,233	1,486	117	629	68	3,532
2000	January.....	166	153	297	105	1,257	1,479	115	622	68	3,541

^{1/} Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

Notes: •Oil Stocks - See Explanatory Note 2 in Appendix B. •See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.6 Commercial and Government-Owned Oil Stocks in OECD Countries (End of December 1999)
(Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	117	0	117
United States ^{1/}	919	567	1,486
United States Territories.....	20	0	20
Japan.....	314	315	629
Australia/New Zealand.....	48	NA	48
Austria.....	23	0	23
Belgium/Luxembourg.....	28	0	28
Denmark.....	22	0	22
Finland.....	23	0	23
France.....	163	0	163
Germany ^{2/}	232	55	287
Greece.....	30	NA	30
Ireland.....	9	2	11
Italy.....	142	6	148
Netherlands.....	83	0	83
Norway.....	53	0	53
Portugal.....	25	0	25
Spain.....	111	0	111
Sweden.....	R32	0	R32
Switzerland.....	41	0	41
Turkey.....	49	0	49
United Kingdom.....	105	0	105
OECD Europe.....	R1,170	63	R1,233
Total OECD.....	R2,587	945	R3,532

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} Data are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not Available. R=Revised data.

Notes: •Sum of components may not equal total due to rounding. •Oil Stocks - See Explanatory Note 2 in Appendix B.

•OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group.

Sources: See end of Section 1.

Table 1.7. OECD Oil Demand, 1990-Present
 (Thousand Barrels per Day)

		France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1990	Average....	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475
1991	Average....	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	38,067
1992	Average....	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	R1,051	R38,778
1993	Average....	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,117	38,966
1994	Average....	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,171	39,887
1995	Average....	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,265	40,575
1996	Average....	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,190	41,432
1997	Average....	1,955	2,045	2,903	1,799	14,433	18,620	1,857	5,711	1,221	41,843
1998	Average....	2,032	2,072	2,916	1,784	14,720	18,917	1,873	5,512	1,275	42,297
1999	January....	R2,025	2,077	2,571	1,688	R14,184	18,850	1,821	R5,880	1,147	R41,881
	February...	R2,221	2,139	3,182	1,881	R15,740	19,240	1,922	R6,462	1,282	R44,647
	March.....	R2,127	2,023	3,559	1,856	R15,979	19,489	1,874	R6,185	1,437	R44,964
	April.....	R2,006	1,903	2,441	1,702	R13,964	18,861	R1,781	5,319	1,338	R41,262
	May.....	R1,729	1,779	R2,482	1,633	R13,206	18,142	R1,792	4,782	1,274	R39,197
	June.....	R2,008	1,956	2,697	1,697	R14,306	19,738	R1,884	4,963	1,392	R42,283
	July.....	R1,998	1,951	2,597	1,688	R13,995	19,503	R1,893	5,086	1,263	R41,741
	August....	R1,890	1,797	2,745	1,690	R13,801	19,883	1,954	5,272	1,390	R42,299
	September..	R1,988	2,063	2,887	1,717	R14,534	19,537	1,929	5,355	1,260	R42,615
	October....	R2,017	R1,972	2,935	1,627	R14,385	19,860	1,803	5,083	1,392	R42,524
	November...	R2,156	R2,062	2,978	1,709	R15,200	19,027	1,936	5,726	R1,305	R43,194
	December...	R2,198	R2,107	2,939	1,647	R15,327	20,507	1,947	6,739	1,513	R46,033
	Average....	R2,029	1,984	2,832	1,710	R14,543	19,389	1,878	5,566	1,333	R42,708
2000	January....	2,146	1,911	2,394	1,627	14,046	18,592	1,816	5,404	1,365	41,223

1/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ U.S. geographic coverage is the 50 States and the District of Columbia.

4/ "Other" consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

Notes: •The term Demand is used interchangeably with Consumption and Petroleum Products Supplied. See Appendix C for definition. •See Section 4 for historical series.

Sources: See end of Section 1.

Sources for Section 1 (Annual and Monthly Oil Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1998 and Petroleum Supply Monthly, April 2000.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Energy Intelligence Group, Inc., Petroleum Intelligence Weekly, various issues. All Other Countries -- PennWell Publishing Company, Oil and Gas Journal, various issues. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, December 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1998 and Petroleum Supply Monthly, April 2000.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues.
• OECD, Monthly Oil Statistics data base, 1990-1999.

Oil Demand

United States: EIA, Petroleum Supply Annual 1998 and Petroleum Supply Monthly, April 2000.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-2000.

2. International Oil Balance Data

Table 2.1 World Oil Balance, 1996-2000
(Million Barrels Per Day)

	1996	1997	1998	1999				2000				
	Annual		Quarter		Annual		Quarter		Annual			
	Average		First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average
Supply^{1/}												
OECD												
United States ^{2/}	9.44	9.46	9.28	8.98	8.99	9.02	9.28	9.07	9.15	NA	NA	NA
Other OECD.....	10.26	10.41	10.39	10.36	10.06	10.33	10.94	10.43	11.12	NA	NA	NA
Total OECD.....	19.70	19.87	19.67	19.35	19.05	19.35	20.22	19.50	20.27	NA	NA	NA
Non-OECD												
OPEC.....	28.02	29.35	30.49	30.36	28.92	29.25	28.75	29.31	29.30	NA	NA	NA
Former USSR.....	7.05	7.21	7.25	7.27	7.34	7.48	7.52	7.40	7.62	NA	NA	NA
Other Non-OECD.....	16.62	17.22	17.74	18.07	17.70	17.72	17.69	17.79	17.98	NA	NA	NA
Total Non-OECD.....	51.69	53.78	55.48	55.70	53.96	54.45	53.95	54.51	54.90	NA	NA	NA
Total World Supply.....	71.39	73.65	75.15	75.04	73.01	73.80	74.17	74.00	75.17	NA	NA	NA
Demand^{3/}												
OECD												
United States ^{2/}	18.31	18.62	18.92	19.19	18.91	19.64	19.81	19.39	NA	NA	NA	NA
Other OECD.....	23.12	23.22	23.38	24.61	21.99	22.57	24.12	23.32	NA	NA	NA	NA
Total OECD.....	41.43	41.84	42.30	43.80	40.90	42.21	43.92	42.71	NA	NA	NA	NA
Non-OECD												
China.....	3.52	3.79	4.11	4.36	4.32	4.28	4.32	4.32	NA	NA	NA	NA
Former USSR.....	4.03	4.26	3.77	3.80	3.50	3.57	3.72	3.65	NA	NA	NA	NA
Other Non-OECD.....	22.34	23.11	23.47	23.69	23.95	23.81	24.17	23.91	NA	NA	NA	NA
Total Non-OECD.....	29.89	31.16	31.35	31.85	31.77	31.66	32.21	31.87	NA	NA	NA	NA
Total World Demand.....	71.32	73.00	73.64	75.65	72.67	73.88	76.13	74.58	NA	NA	NA	NA
Stock Draws / Discrepancy												
Net Reported Stock Draws ^{4/}												
U. S. Commercial.....	.08	-.15	-.22	.44	-.27	.30	1.24	.43	NA	NA	NA	NA
U. S. Strategic.....	.07	.01	-.02	-.01	-.03	.00	.09	.01	NA	NA	NA	NA
Other OECD.....	-.13	-.13	-.02	-.01	.04	.02	.94	.25	NA	NA	NA	NA
For Export & Afloat.....	-.01	-.12	-.01	-.22	.82	-.33	.33	.08	NA	NA	NA	NA
Commr. Floating Storage...	.00	.00	-.08	.07	.01	-.10	-.26	-.01	NA	NA	NA	NA
Total Reported Draws.....	.01	-.39	-.36	.27	.57	-.10	2.33	.76	NA	NA	NA	NA
Other Stock Draws and Statistical Discrepancy ^{5/}	-.08	-.26	-1.15	.34	-.91	.18	-.37	-.18	NA	NA	NA	NA

^{1/} Supply includes production of crude oil (including lease condensate), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources.

^{2/} U.S. geographical coverage is the 50 States and the District of Columbia. See Explanatory Note 1 in Appendix B.

^{3/} The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition.

^{4/} Stock draws are positive numbers, stock additions are negative numbers.

^{5/} This is computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw.

NA=Not available.

Note: Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Table 2.2 World Oil Supply, 1996-2000
(Million Barrels Per Day)

	1996	1997	1998	1999				2000				
	Annual		Quarter				Annual		Quarter		Annual	
	Average		First	Second	Third	Fourth	Average		First	Second	Third	Fourth
OECD												
United States ^{1/} ...	9.44	9.46	9.28	8.98	8.99	9.02	9.28	9.07	9.15	NA	NA	NA
Canada.....	2.49	2.62	2.69	2.58	2.58	2.62	2.71	2.62	2.74	NA	NA	NA
North Sea ^{2/}	6.22	6.20	6.18	6.29	6.02	6.21	6.66	6.30	6.67	NA	NA	NA
Other OECD.....	1.55	1.59	1.52	1.49	1.46	1.49	1.57	1.51	1.71	NA	NA	NA
Total OECD.....	19.70	19.87	19.67	19.35	19.05	19.35	20.22	19.50	20.27	NA	NA	NA
Non-OECD												
OPEC												
Crude												
Algeria.....	1.24	1.28	1.25	1.24	1.19	1.19	1.19	1.20	1.19	NA	NA	NA
Indonesia.....	1.55	1.52	1.52	1.53	1.52	1.48	1.48	1.50	1.44	NA	NA	NA
Iran.....	3.69	3.66	3.63	3.79	3.44	3.51	3.48	3.56	3.58	NA	NA	NA
Iraq.....	.58	1.15	2.15	2.53	2.57	2.84	2.09	2.51	2.34	NA	NA	NA
Kuwait.....	2.06	2.01	2.09	2.01	1.81	1.86	1.92	1.90	2.01	NA	NA	NA
Libya.....	1.40	1.45	1.39	1.36	1.30	1.29	1.32	1.32	1.37	NA	NA	NA
Nigeria.....	2.00	2.13	2.15	2.09	2.17	2.14	2.13	2.13	2.05	NA	NA	NA
Qatar.....	.51	.55	.70	.72	.68	.68	.69	.69	.70	NA	NA	NA
Saudi Arabia..	8.22	8.36	8.39	8.15	7.65	7.68	7.86	7.83	7.86	NA	NA	NA
United Arab												
Emirates...	2.28	2.32	2.35	2.27	2.14	2.14	2.14	2.17	2.27	NA	NA	NA
Venezuela....	2.94	3.28	3.17	2.99	2.78	2.76	2.77	2.83	2.82	NA	NA	NA
Natural Gas												
Plant Liquids	1.50	1.59	1.66	1.63	1.60	1.61	1.63	1.62	1.63	NA	NA	NA
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	NA	NA	NA
Total OPEC.....	28.02	29.35	30.49	30.36	28.92	29.25	28.75	29.31	29.30	NA	NA	NA
Former USSR.....	7.05	7.21	7.25	7.27	7.34	7.48	7.52	7.40	7.62	NA	NA	NA
China.....	3.13	3.20	3.20	3.23	3.19	3.19	3.22	3.21	3.27	NA	NA	NA
Mexico.....	3.31	3.44	3.52	3.56	3.35	3.33	3.25	3.37	3.45	NA	NA	NA
Other Non-OECD....	10.18	10.58	11.02	11.28	11.16	11.20	11.22	11.22	11.26	NA	NA	NA
Total Non-OECD....	51.69	53.78	55.48	55.70	53.96	54.45	53.95	54.51	54.90	NA	NA	NA
Total Supply.....	71.39	73.65	75.15	75.04	73.01	73.80	74.17	74.00	75.17	NA	NA	NA

1/ U.S. geographic coverage is the 50 States and the District of Columbia.

2/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

NA=Not available.

Notes: •Supply includes crude oil (including lease condensate), natural gas plant liquids, (except for individual OPEC countries), other hydrogen and hydrocarbons for refinery feedstocks, alcohol, liquids produced from coal and other sources, and processing gain (except for individual OPEC countries). For OPEC, natural gas plant liquids production and processing gain are shown as separate lines. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Table 2.3 Oil Stocks, End of Period
(Million Barrels)

	1995	1996	1997	1998				1999			
	Year End		Quarter				Quarter				
			First	Second	Third	Fourth	First	Second	Third	Fourth	
OECD											
United States ^{1/}											
Commercial.....	971	941	997	1,024	1,088	1,089	1,076	1,036	1,061	1,033	919
Strategic.....	592	566	563	563	563	563	571	572	575	575	567
U. S. Territories.....	24	25	23	25	28	29	22	22	22	25	20
Canada.....	109	103	115	123	116	120	118	124	118	115	117
Japan.....	630	651	685	655	658	676	649	634	638	652	629
OECD Europe											
France.....	159	158	164	155	164	170	161	179	177	173	163
Germany.....	301	300	298	285	308	317	321	306	310	300	287
Italy.....	162	152	147	146	164	158	153	149	146	150	148
United Kingdom.....	107	108	105	109	109	107	108	109	102	106	105
Other OECD Europe....	499	537	542	551	567	573	560	566	570	561	530
Total.....	1,228	1,256	1,256	1,245	1,312	1,325	1,304	1,309	1,305	1,289	1,233
Australia & New Zealand	47	49	51	49	54	50	44	49	51	52	48
Total OECD.....	3,601	3,591	3,689	3,684	3,819	3,853	3,784	3,746	3,771	3,741	3,532
Stocks for Export											
and Afloat ^{2/}	980	985	1,030	1,070	1,050	1,030	1,035	1,055	980	1,010	980
Commercial Floating ^{3/}	70	70	70	80	90	110	100	94	93	102	126

^{1/} U.S. stock data include Alaskan crude oil in transit by water. These data were previously reported in stocks for export and afloat. U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} Stocks held at export terminals of major crude oil producing countries and commercial oil afloat based on quarterly analysis of world seaborne movements.

^{3/} Stocks stored by industry in tankers moored offshore. Excludes strategic storage.

Notes: •Oil Stocks - See Note 2 in Appendix B. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Table 2.4 World Oil Demand, 1995-1999
(Million Barrels Per Day)

	1995	1996	1997	1998								1999				
	Annual		Quarter				Annual		Quarter				Annual		Annual	
	Average		First	Second	Third	Fourth	Average		First	Second	Third	Fourth	Average		First	Second
OECD																
United States ¹ /.....	17.72	18.31	18.62	18.46	18.86	19.24	19.10	18.92	19.19	18.91	19.64	19.81	19.39			
U. S. Territories.....	.28	.26	.27	.33	.29	.30	.32	.31	.33	.35	.33	.36	.34			
Canada.....	1.76	1.80	1.86	1.83	1.81	1.93	1.92	1.87	1.87	1.82	1.93	1.89	1.88			
Japan.....	5.71	5.87	5.71	6.15	4.97	5.24	5.70	5.51	6.17	5.02	5.24	5.85	5.57			
OECD Europe ² /																
France.....	1.90	1.93	1.96	2.08	1.95	2.01	2.09	2.03	2.12	1.91	1.96	2.12	2.03			
Italy.....	2.05	2.06	2.04	2.11	2.01	2.01	2.16	2.07	2.08	1.88	1.94	2.05	1.98			
United Kingdom.....	1.84	1.85	1.80	1.83	1.73	1.77	1.81	1.78	1.81	1.68	1.70	1.66	1.71			
Germany ³ /.....	2.88	2.91	2.90	2.95	2.79	2.97	2.95	2.92	3.10	2.54	2.74	2.95	2.83			
Other OECD Europe....	5.45	5.52	5.73	5.92	5.70	5.84	6.19	5.91	6.18	5.81	5.77	6.19	5.99			
Total OECD Europe....	14.12	14.27	14.43	14.88	14.18	14.60	15.22	14.72	15.29	13.82	14.11	14.97	14.54			
Australia & New Zealand	.99	.93	.95	.95	.97	.94	1.00	.96	.96	.99	.97	1.04	.99			
Total OECD.....	40.57	41.43	41.84	42.60	41.07	42.25	43.25	42.30	43.80	40.90	42.21	43.92	42.71			
Non-OECD																
China.....	3.32	3.52	3.79	4.24	4.11	4.05	4.05	4.11	4.36	4.32	4.28	4.32	4.32			
Former USSR.....	4.60	4.03	4.26	3.96	3.73	3.69	3.69	3.77	3.80	3.50	3.57	3.72	3.65			
Other Non-OECD.....	21.41	22.34	23.11	23.31	23.50	23.48	23.58	23.47	23.69	23.95	23.81	24.17	23.91			
Total Non-OECD.....	29.33	29.89	31.16	31.51	31.34	31.22	31.32	31.35	31.85	31.77	31.66	32.21	31.87			
Total World Demand.....	69.91	71.32	73.00	74.11	72.41	73.48	74.57	73.64	75.65	72.67	73.88	76.13	74.58			

1/ U.S. geographic coverage is the 50 States and the District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Oil demand includes bunkers and refinery fuel. The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Sources for Section 2 (International Oil Balance Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1998 and Petroleum Supply Monthly, April 2000.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Energy Intelligence Group, Inc., Petroleum Intelligence Weekly, various issues. Other Countries -- PennWell Publishing Company, Oil and Gas Journal, various issues. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, December 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1998 and Petroleum Supply Monthly, April 2000.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1995-1999. Stocks for Export and Afloat and Commercial Floating Stocks -- Petroleum Economics Limited, Oil Industry Developments, various issues.

Oil Demand

United States: EIA, Petroleum Supply Annual 1998 and Petroleum Supply Monthly, April 2000.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1995-2000.

OPEC Countries: EIA, International Energy Annual, various issues and Short-Term Energy Outlook, various issues.

Other countries: EIA, International Energy Annual, various issues and Short-Term Energy Outlook, various issues.

3. International Oil Imports

Table 3.1 Average Net Oil Imports into OECD Countries, (1999 Average)
(Million Barrels per Day)

	OECD Europe							OECD Outside Europe			
	Total		United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/} Canada		Japan	Other ^{4/}
	Total										
Total Net Imports..	21.870	7.059	-1.261	1.886	2.608	1.731	2.094	9.612	-0.825	5.463	0.561
Imports from OPEC ^{5/}	16.124	5.923	.135	.918	.597	1.234	3.038	4.834	.300	4.403	.664
Imports from Persian Gulf ^{6/}											
Total.....	10.085	3.306	.031	.629	.140	.570	1.936	2.419	.088	4.051	.222
Bahrain.....	.018	.001	-	.001	-	.000	-	.000	.000	.017	.000
Iran.....	1.445	.942	.000	.137	.016	.269	.520	.000	.000	.502	.002
Iraq.....	1.683	.808	-	.148	.017	.130	.512	.707	.022	.099	.048
Kuwait.....	.991	.222	.005	.037	.015	.003	.162	.248	.000	.515	.006
U.A.E.....	1.304	.006	.002	.001	.000	.000	.003	-.002	-	1.266	.034
Qatar.....	.464	.000	-	.000	-	-	.000	.010	-	.442	.012
Saudi Arabia.....	4.179	1.328	.024	.304	.091	.169	.739	1.456	.065	1.210	.121
Imports from OPEC-Africa											
Total.....	3.503	2.400	.078	.284	.417	.655	.966	.906	.093	.038	.066
Algeria.....	1.045	.704	.026	.118	.098	.111	.352	.255	.068	.013	.004
Libya.....	1.251	1.251	.042	.067	.296	.516	.329	.000	-	-	.000
Nigeria.....	1.208	.445	.010	.099	.023	.027	.285	.651	.024	.025	.062
Imports from OPEC-South America											
Total.....	2.017	.213	.026	.002	.041	.008	.136	1.435	.120	.001	.249
Venezuela.....	2.017	.213	.026	.002	.041	.008	.136	1.435	.120	.001	.249
Imports from OPEC-Far East											
Total.....	.536	.005	-	.004	.000	.001	.000	.074	-	.329	.128
Indonesia.....	.536	.005	-	.004	.000	.001	.000	.074	-	.329	.128

1/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

2/ "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

3/ U.S. geographic coverage is the 50 States and District of Columbia.

4/ "Other" consists of Australia, New Zealand, and U. S. Territories.

5/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

6/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.2 Net Oil Imports into OECD Countries, (4th Quarter 1999)
(Million Barrels per Day)

	OECD Europe							OECD Outside Europe			
	Total		United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/} Canada		Japan	Other ^{4/}
	Total										
Total Net Imports..	20.786	6.589	-1.493	1.886	2.705	1.803	1.687	9.035	-0.935	5.633	0.464
Imports from OPEC ^{5/}	15.526	5.722	.141	.791	.626	1.185	2.979	4.447	.298	4.439	.619
Imports from Persian Gulf ^{6/}											
Total.....	9.753	3.008	.029	.526	.125	.507	1.821	2.316	.108	4.075	.246
Bahrain.....	.030	.005	-	.005	-	.000	-	-.001	.000	.025	.001
Iran.....	1.407	.852	.000	.121	.021	.233	.478	.000	.000	.555	.000
Iraq.....	1.683	.712	-	.098	.005	.129	.479	.745	.032	.129	.064
Kuwait.....	.962	.244	.013	.042	.012	.010	.166	.207	.002	.508	.001
U.A.E.....	1.274	.012	.000	.003	.000	.000	.008	-.004	-	1.236	.030
Qatar.....	.441	.000	-	.000	-	-	.000	.006	-	.420	.015
Saudi Arabia.....	3.956	1.184	.016	.256	.086	.135	.690	1.362	.074	1.201	.134
Imports from OPEC-Africa											
Total.....	3.508	2.532	.089	.263	.469	.672	1.039	.762	.092	.080	.043
Algeria.....	1.095	.781	.031	.113	.125	.130	.382	.223	.075	.013	.003
Libya.....	1.279	1.279	.058	.048	.307	.528	.337	.000	-	-	.000
Nigeria.....	1.134	.473	.000	.102	.037	.013	.320	.538	.017	.067	.039
Imports from OPEC-South America											
Total.....	1.794	.179	.022	.000	.032	.006	.118	1.281	.098	.000	.236
Venezuela.....	1.794	.179	.022	.000	.032	.006	.118	1.281	.098	.000	.236
Imports from OPEC-Far East											
Total.....	.500	.008	-	.008	.000	.000	.000	.087	-	.310	.095
Indonesia.....	.500	.008	-	.008	.000	.000	.000	.087	-	.310	.095

1/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

2/ "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

3/ U.S. geographic coverage is the 50 States and District of Columbia.

4/ "Other" consists of Australia, New Zealand, and U. S. Territories.

5/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

6/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.3 Net Oil Imports into OECD Countries, (3rd Quarter 1999)
(Million Barrels per Day)

	OECD Europe							OECD Outside Europe			
	Total		United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/} Canada		Japan	Other ^{4/}
	Total										
Total Net Imports..	21.489	6.537	-1.337	1.779	2.449	1.669	1.978	9.950	-0.858	5.292	0.568
Imports from OPEC ^{5/}	15.585	5.631	.129	.901	.572	1.114	2.915	4.847	.238	4.215	.654
Imports from Persian Gulf ^{6/}											
Total.....	9.791	3.225	.017	.602	.164	.542	1.900	2.424	.033	3.859	.249
Bahrain.....	.011	.000	-	.000	-	.000	-	.000	.000	.011	.000
Iran.....	1.340	.861	.000	.127	.025	.232	.477	.000	.000	.473	.006
Iraq.....	1.766	.914	-	.162	.022	.174	.556	.692	.000	.127	.032
Kuwait.....	1.009	.201	.005	.021	.014	.000	.160	.307	.000	.491	.011
U.A.E.....	1.196	.004	.002	.000	.000	.000	.002	-.004	-	1.152	.044
Qatar.....	.538	.000	-	.000	-	-	.000	.011	-	.497	.030
Saudi Arabia.....	3.932	1.246	.010	.292	.103	.136	.705	1.419	.033	1.108	.126
Imports from OPEC-Africa											
Total.....	3.316	2.228	.080	.295	.366	.558	.928	.927	.096	.017	.048
Algeria.....	.935	.584	.038	.083	.066	.083	.314	.269	.063	.017	.003
Libya.....	1.246	1.246	.043	.089	.300	.468	.345	.000	-	-	.000
Nigeria.....	1.135	.398	.000	.123	.000	.007	.268	.658	.033	.000	.046
Imports from OPEC-South America											
Total.....	1.970	.174	.031	.003	.042	.011	.087	1.428	.109	.000	.259
Venezuela.....	1.970	.174	.031	.003	.042	.011	.087	1.428	.109	.000	.259
Imports from OPEC-Far East											
Total.....	.520	.005	-	.001	.000	.003	.000	.067	-	.350	.097
Indonesia.....	.520	.005	-	.001	.000	.003	.000	.067	-	.350	.097

1/ The data for Germany are for unified Germany, i.e., the former East Germany and West Germany.

2/ "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

3/ U.S. geographic coverage is the 50 States and District of Columbia.

4/ "Other" consists of Australia, New Zealand, and U. S. Territories.

5/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

6/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.4 OECD Total Net Imports (Most Recent 12 Months)
 (Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total.....	22.247	24.213	23.275	21.423	20.689	22.010	22.360	20.052	21.594	20.348	20.404	21.017	
United States ^{1/}	9.580	9.825	10.031	9.950	9.717	10.332	9.832	9.677	9.484	8.974	8.646	8.789	
Canada.....	-.751	-.585	-.785	-.824	-.823	-.870	-.920	-.780	-.913	-.887	-.1003	-.768	
OECD Europe ^{2/}	6.984	8.182	7.873	6.976	6.351	6.645	7.008	5.941	7.101	5.885	6.757	7.180	
Main European Importers													
France.....	1.957	1.960	1.778	1.940	1.903	1.738	1.910	1.686	1.816	1.806	2.032	2.124	
Germany ^{3/}	2.680	2.994	2.706	2.397	2.291	2.472	2.361	2.516	2.657	2.724	2.735	2.509	
Italy.....	1.598	1.899	1.666	1.631	1.497	1.589	1.778	1.638	1.796	1.820	1.794	1.818	
Spain.....	1.310	1.631	1.423	1.278	1.338	1.297	1.377	1.353	1.411	1.267	1.506	1.439	
Netherlands.....	.604	.698	.843	.890	.732	.763	.637	.741	.662	.751	.697	.800	
European Net Exporters													
Norway.....	-3.226	-3.021	-2.619	-2.881	-3.149	-2.867	-2.803	-3.186	-2.692	-3.609	-3.485	-3.248	
United Kingdom....	-1.052	-1.029	-1.230	-1.078	-1.181	-1.302	-1.139	-1.579	-1.399	-1.645	-1.440	-1.337	
Smaller European Importers													
Austria.....	.221	.233	.238	.230	.257	.258	.189	.192	.239	.248	.214	.183	
Belgium.....	.675	.529	.694	.533	.475	.462	.577	.505	.517	.488	.593	.554	
Denmark.....	-.073	-.039	-.058	-.026	-.101	-.104	-.068	-.115	-.163	-.146	-.182	-.154	
Ireland.....	.162	.156	.195	.163	.133	.176	.149	.173	.150	.176	.184	.200	
Finland.....	.087	.177	.181	.293	.210	.236	.170	.203	.180	.205	.239	.274	
Greece.....	.490	.422	.289	.259	.310	.346	.361	.324	.482	.324	.327	.403	
Iceland.....	.011	.025	.019	.010	.020	.034	.014	.024	.017	.017	.009	.021	
Luxembourg.....	.043	.048	.045	.043	.041	.044	.041	.045	.045	.044	.048	.046	
Portugal.....	.310	.339	.415	.313	.362	.368	.378	.251	.290	.351	.288	.323	
Sweden.....	.371	.373	.417	.300	.399	.280	.301	.348	.343	.260	.370	.331	
Switzerland.....	.249	.262	.274	.202	.293	.290	.252	.251	.235	.254	.258	.223	
Turkey.....	.564	.525	.595	.480	.521	.565	.521	.570	.514	.551	.566	.673	
Japan.....	5.904	6.155	5.375	4.834	4.806	5.334	5.785	4.739	5.482	5.765	5.658	5.693	
Other OECD.....	.530	.636	.780	.486	.638	.569	.656	.476	.440	.610	.346	.123	

^{1/} U.S. geographic coverage is the 50 States and District of Columbia.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.5 OECD Imports from OPEC (Most Recent 12 Months)
(Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total.....	17.045	17.723	17.244	15.328	15.488	15.487	16.241	15.007	15.759	15.336	15.476	15.603	
United States ^{1/}	5.043	5.108	5.560	4.880	4.857	4.852	4.916	4.771	4.502	4.361	4.476	4.107	
Canada.....	.375	.433	.312	.257	.166	.213	.208	.294	.336	.328	.232	.442	
OECD Europe ^{2/}	6.172	6.355	6.073	5.609	5.808	5.628	5.781	5.480	5.953	5.429	5.775	6.164	
Main European Importers													
France.....	1.171	.930	.851	.978	.970	.837	.978	.887	.816	.663	.891	.853	
Germany ^{3/}.....	.557	.615	.680	.497	.524	.594	.560	.561	.659	.649	.571	.579	
Italy.....	1.195	1.475	1.345	1.261	1.065	1.079	1.170	1.093	1.217	1.119	1.217	1.301	
Spain.....	.804	.796	.804	.726	.759	.750	.865	.809	.863	.780	.928	.892	
Netherlands.....	.854	.801	.715	.745	.838	.870	.656	.793	.734	.795	.732	.868	
European Net Exporters													
Norway.....	.000	.000	.000	.000	.001	.000	.000	.000	.008	.000	.000	.000	
United Kingdom....	.110	.105	.145	.180	.121	.059	.239	.087	.174	.152	.097	.101	
Smaller European Importers													
Austria.....	.092	.127	.090	.139	.102	.111	.070	.044	.111	.156	.123	.085	
Belgium.....	.157	.280	.290	.190	.219	.266	.244	.207	.210	.176	.182	.241	
Denmark.....	.027	.035	.039	.025	.029	.019	.007	.051	.045	.025	.024	.045	
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	
Greece.....	.352	.345	.230	.256	.310	.292	.364	.264	.410	.314	.319	.374	
Portugal.....	.134	.207	.218	.140	.234	.135	.103	.134	.197	.169	.140	.159	
Sweden.....	.090	.093	.081	.019	.155	.040	.081	.099	.082	.004	.067	.027	
Switzerland.....	.090	.115	.103	.080	.110	.107	.101	.104	.103	.100	.104	.106	
Turkey.....	.538	.430	.482	.373	.371	.469	.342	.349	.324	.328	.380	.530	
Japan.....	4.809	5.082	4.501	3.935	3.992	4.138	4.648	3.847	4.368	4.583	4.372	4.408	
Other OECD.....	.646	.745	.799	.647	.666	.657	.689	.614	.600	.635	.622	.481	

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development; OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.6 OECD Imports from Persian Gulf (Most Recent 12 Months)
 (Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total.....	10.791	11.615	10.360	9.478	9.615	9.796	10.095	9.470	10.055	9.794	9.413	9.499	
United States ^{1/}	2.393	2.791	2.585	2.444	2.484	2.390	2.411	2.474	2.352	2.288	2.308	2.036	
Canada.....	.071	.201	.065	.058	.063	.074	.000	.024	.140	.151	.034	.165	
OECD Europe ^{2/}	3.615	3.703	3.356	3.132	3.245	3.316	3.201	3.157	3.239	2.959	2.825	3.044	
Main European Importers													
France.....	.791	.702	.630	.660	.666	.600	.601	.604	.578	.488	.509	.459	
Germany ^{3/}.....	.151	.105	.147	.126	.113	.202	.135	.154	.143	.148	.083	.075
Italy.....	.598	.682	.677	.621	.503	.551	.562	.512	.567	.479	.474	.479	
Spain.....	.398	.399	.380	.253	.290	.324	.392	.327	.291	.310	.319	.328	
Netherlands.....	.650	.675	.514	.605	.617	.627	.554	.670	.564	.660	.529	.642	
European Net Exporters													
United Kingdom....	.028	.023	.043	.009	.050	.001	.018	.032	.032	.035	.022	.052	
Smaller European Importers													
Austria.....	.017	.041	.032	.075	.061	.055	.035	.035	.070	.068	.034	.029	
Belgium.....	.093	.215	.225	.159	.185	.212	.191	.181	.193	.165	.166	.191	
Denmark.....	.000	.000	.000	.000	.000	.019	.007	.000	.000	.000	.000	.013	
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Greece.....	.316	.319	.197	.229	.278	.249	.324	.224	.365	.263	.280	.356	
Portugal.....	.133	.150	.128	.074	.126	.112	.084	.072	.177	.117	.070	.052	
Sweden.....	.075	.068	.067	.000	.127	.000	.064	.062	.064	.000	.067	.000	
Switzerland.....	.000	.000	.010	.012	.005	.009	.014	.009	.014	.005	.005	.000	
Turkey.....	.366	.323	.304	.309	.225	.354	.219	.274	.178	.222	.267	.367	
Japan.....	4.522	4.704	4.116	3.684	3.652	3.760	4.210	3.598	4.118	4.116	3.991	4.079	
Other OECD.....	.190	.215	.238	.160	.170	.257	.274	.216	.205	.280	.255	.175	

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.7 United States--Net Oil Imports (Most Recent 12 Months)
 (Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total Net Imports..	9.580	9.825	10.031	9.950	9.717	10.332	9.832	9.677	9.484	8.974	8.646	8.789	
Imports from OPEC ^{1/}	5.043	5.108	5.560	4.880	4.857	4.852	4.916	4.771	4.502	4.361	4.476	4.107	
Imports from Persian Gulf ^{2/}													
Total.....	2.393	2.791	2.585	2.444	2.484	2.390	2.411	2.474	2.352	2.288	2.308	2.036	
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	-.003	.000	.000	
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Iraq.....	.681	.791	.824	.720	.691	.670	.660	.748	.867	.717	.651	.254	
Kuwait.....	.205	.324	.286	.227	.259	.311	.348	.261	.206	.216	.200	.239	
U.A.E.....	-.003	-.003	.000	-.003	.019	-.003	-.009	.000	-.003	-.003	-.006	.000	
Qatar.....	.000	.034	.031	.000	.000	.000	.018	.014	.000	.011	.008	.004	
Saudi Arabia.....	1.510	1.645	1.444	1.500	1.515	1.412	1.394	1.451	1.282	1.350	1.455	1.539	
Imports from OPEC-Africa													
Total.....	.890	.957	1.205	.899	.948	.938	1.049	.790	.726	.798	.763	.715	
Algeria.....	.203	.298	.304	.293	.245	.302	.249	.255	.183	.210	.277	.226	
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Nigeria.....	.687	.659	.901	.606	.703	.636	.800	.535	.543	.588	.486	.489	
Imports from OPEC-South America													
Total.....	1.694	1.321	1.674	1.455	1.369	1.486	1.384	1.414	1.329	1.199	1.312	1.325	
Venezuela.....	1.694	1.321	1.674	1.455	1.369	1.486	1.384	1.414	1.329	1.199	1.312	1.325	
Imports from OPEC-Far East													
Total.....	.066	.039	.096	.082	.056	.038	.072	.093	.095	.073	.093	.031	
Indonesia.....	.066	.039	.096	.082	.056	.038	.072	.093	.095	.073	.093	.031	

^{1/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{2/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.8 Japan--Net Oil Imports (Most Recent 12 Months)
 (Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total Net Imports..	5.904	6.155	5.375	4.834	4.806	5.334	5.785	4.739	5.482	5.765	5.658	5.693	
Imports from OPEC ¹ /	4.809	5.082	4.501	3.935	3.992	4.138	4.648	3.847	4.368	4.583	4.372	4.408	
Imports from Persian Gulf ² /													
Total.....	4.522	4.704	4.116	3.684	3.652	3.760	4.210	3.598	4.118	4.116	3.991	4.079	
Bahrain.....	.031	.008	.000	.015	.022	.016	.009	.007	.022	.030	.023	.022	
Iran.....	.584	.785	.370	.337	.447	.439	.649	.326	.557	.490	.617	.652	
Iraq.....	.036	.000	.135	.096	.152	.000	.296	.084	.133	.225	.032	.000	
Kuwait.....	.602	.588	.494	.577	.435	.483	.468	.522	.499	.479	.544	.445	
U.A.E.....	1.411	1.507	1.470	1.037	1.113	1.167	1.150	1.140	1.147	1.299	1.264	1.413	
Qatar.....	.422	.456	.470	.405	.344	.435	.588	.466	.389	.454	.418	.417	
Saudi Arabia.....	1.436	1.361	1.177	1.216	1.138	1.221	1.050	1.053	1.371	1.138	1.093	1.129	
Imports from OPEC-Africa													
Total.....	.014	.000	.000	.000	.016	.016	.023	.011	.018	.163	.061	.061	
Algeria.....	.000	.000	.000	.000	.016	.016	.023	.011	.018	.022	.000	.000	
Nigeria.....	.014	.000	.000	.000	.000	.000	.000	.000	.000	.141	.061	.061	
Imports from OPEC-South America													
Total.....	.000	.001	.000	.000	.007	.001	.000	.000	.000	.000	.000	.000	
Venezuela.....	.000	.001	.000	.000	.007	.001	.000	.000	.000	.000	.000	.000	
Imports from OPEC-Far East													
Total.....	.305	.385	.384	.267	.338	.378	.425	.245	.254	.334	.342	.290	
Indonesia.....	.305	.385	.384	.267	.338	.378	.425	.245	.254	.334	.342	.290	

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis.

•Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.9 OECD Europe--Net Oil Imports (Most Recent 12 Months)
 (Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total Net Imports..	6.984	8.182	7.873	6.976	6.351	6.645	7.008	5.941	7.101	5.885	6.757	7.180	
Imports from OPEC ¹ /	6.172	6.355	6.073	5.609	5.808	5.628	5.781	5.480	5.953	5.429	5.775	6.164	
Imports from Persian Gulf ² /													
Total.....	3.615	3.703	3.356	3.132	3.245	3.316	3.201	3.157	3.239	2.959	2.825	3.044	
Bahrain.....	.001	.000	.001	.000	.000	.000	.000	.000	.000	.000	.014	.000	
Iran.....	1.057	1.241	1.182	.915	.800	.848	.960	.771	.945	.742	.866	.631	
Iraq.....	.812	.677	.642	.814	.885	.997	.895	.849	.756	1.041	.350	.813	
Kuwait.....	.180	.265	.103	.249	.234	.200	.235	.165	.232	.191	.306	.349	
U.A.E.....	.000	.001	.008	.008	.000	.001	.009	.001	.000	.000	.035	.000	
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Saudi Arabia.....	1.565	1.520	1.420	1.146	1.326	1.270	1.101	1.370	1.305	.986	1.254	1.251	
Imports from OPEC-Africa													
Total.....	2.233	2.351	2.377	2.318	2.357	2.155	2.416	2.108	2.493	2.344	2.753	2.935	
Algeria.....	.642	.753	.719	.721	.630	.713	.609	.425	.743	.724	.872	.925	
Libya.....	1.200	1.244	1.247	1.090	1.292	1.147	1.395	1.195	1.333	1.259	1.243	1.130	
Nigeria.....	.391	.354	.411	.507	.435	.295	.412	.488	.416	.360	.637	.881	
Imports from OPEC-South America													
Total.....	.323	.298	.325	.159	.205	.157	.164	.202	.204	.120	.209	.183	
Venezuela.....	.323	.298	.325	.159	.205	.157	.164	.202	.204	.120	.209	.183	
Imports from OPEC-Far East													
Total.....	.000	.002	.016	.000	.001	.000	.001	.014	.017	.006	.001	.002	
Indonesia.....	.000	.002	.016	.000	.001	.000	.001	.014	.017	.006	.001	.002	

¹/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

²/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. Data for France in January and February 1999 are not available. •"OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.10 France--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total Net Imports..	1.957	1.960	1.778	1.940	1.903	1.738	1.910	1.686	1.816	1.806	2.032	2.124	
Imports from OPEC ^{1/}	1.171	.930	.851	.978	.970	.837	.978	.887	.816	.663	.891	.853	
Imports from Persian Gulf ^{2/}													
Total.....	.791	.702	.630	.660	.666	.600	.601	.604	.578	.488	.509	.459	
Bahrain.....	.001	.000	.001	.000	.000	.000	.000	.000	.000	.000	.014	.000	
Iran.....	.109	.189	.156	.146	.204	.094	.185	.100	.146	.138	.079	.095	
Iraq.....	.149	.157	.137	.160	.117	.196	.098	.194	.054	.180	.064	.068	
Kuwait.....	.036	.067	.001	.065	.055	.000	.064	.000	.046	.000	.079	.022	
U.A.E.....	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.010	.000	
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Saudi Arabia.....	.497	.289	.335	.288	.290	.310	.254	.311	.332	.171	.264	.275	
Imports from OPEC-Africa													
Total.....	.378	.218	.206	.319	.294	.229	.377	.279	.221	.169	.395	.379	
Algeria.....	.109	.143	.067	.162	.140	.077	.103	.068	.126	.062	.149	.121	
Libya.....	.072	.076	.075	.053	.090	.055	.118	.095	.036	.074	.033	.022	
Nigeria.....	.197	.000	.064	.104	.064	.096	.156	.116	.059	.033	.213	.237	
Imports from OPEC-South America													
Total.....	.003	.008	.000	.000	.010	.009	.000	.000	.000	.000	.000	.013	
Venezuela.....	.003	.008	.000	.000	.010	.009	.000	.000	.000	.000	.000	.013	
Imports from OPEC-Far East													
Total.....	.000	.002	.016	.000	.000	.000	.001	.003	.017	.006	.001	.001	
Indonesia.....	.000	.002	.016	.000	.000	.000	.001	.003	.017	.006	.001	.001	

^{1/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{2/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.11 Germany--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total Net Imports..	2.680	2.994	2.706	2.397	2.291	2.472	2.361	2.516	2.657	2.724	2.735	2.509	
Imports from OPEC ¹ /	.557	.615	.680	.497	.524	.594	.560	.561	.659	.649	.571	.579	
Imports from Persian Gulf ² /													
Total.....	.151	.105	.147	.126	.113	.202	.135	.154	.143	.148	.083	.075	
Iran.....	.006	.005	.018	.017	.013	.024	.019	.034	.022	.025	.015	.005	
Iraq.....	.036	.001	.000	.001	.001	.031	.013	.023	.007	.009	.000	.005	
Kuwait.....	.012	.020	.037	.006	.016	.022	.019	.000	.021	.011	.005	.005	
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Saudi Arabia.....	.097	.079	.093	.103	.083	.125	.085	.098	.094	.103	.063	.060	
Imports from OPEC-Africa													
Total.....	.368	.477	.430	.339	.364	.347	.384	.368	.465	.470	.473	.474	
Algeria.....	.079	.111	.151	.091	.042	.079	.054	.064	.101	.147	.127	.127	
Libya.....	.270	.286	.269	.248	.322	.267	.330	.304	.326	.301	.295	.276	
Nigeria.....	.019	.079	.011	.000	.000	.000	.000	.000	.038	.021	.051	.071	
Imports from OPEC-South America													
Total.....	.039	.033	.103	.032	.047	.045	.040	.039	.050	.031	.015	.030	
Venezuela.....	.039	.033	.103	.032	.047	.045	.040	.039	.050	.031	.015	.030	
Imports from OPEC-Far East													
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Indonesia.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: *Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.12 Italy--Net Oil Imports (Most Recent 12 Months)
 (Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total Net Imports..	1.598	1.899	1.666	1.631	1.497	1.589	1.778	1.638	1.796	1.820	1.794	1.818	
Imports from OPEC ¹ /	1.195	1.475	1.345	1.261	1.065	1.079	1.170	1.093	1.217	1.119	1.217	1.301	
Imports from Persian Gulf ² /													
Total.....	.598	.682	.677	.621	.503	.551	.562	.512	.567	.479	.474	.479	
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Iran.....	.356	.337	.315	.297	.199	.248	.232	.214	.222	.220	.257	.141	
Iraq.....	.080	.109	.130	.098	.149	.190	.183	.148	.174	.168	.047	.168	
Kuwait.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.030	.030	
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Saudi Arabia.....	.162	.237	.232	.226	.155	.113	.147	.150	.172	.090	.140	.140	
Imports from OPEC-Africa													
Total.....	.597	.784	.661	.626	.556	.519	.600	.555	.641	.632	.741	.806	
Algeria.....	.105	.117	.108	.099	.080	.081	.082	.087	.083	.154	.154	.207	
Libya.....	.485	.607	.517	.493	.475	.438	.499	.468	.558	.466	.558	.537	
Nigeria.....	.008	.060	.036	.035	.000	.000	.020	.000	.000	.012	.028	.061	
Imports from OPEC-South America													
Total.....	.000	.010	.006	.014	.006	.009	.008	.016	.009	.008	.002	.016	
Venezuela.....	.000	.010	.006	.014	.006	.009	.008	.016	.009	.008	.002	.016	
Imports from OPEC-Far East													
Total.....	.000	.000	.000	.000	.000	.000	.000	.010	.000	.000	.000	.000	
Indonesia.....	.000	.000	.000	.000	.000	.000	.000	.010	.000	.000	.000	.000	

¹/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

²/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.13 OECD Imports from Iraq (Most Recent 12 Months)
(Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total.....	1.642	1.588	1.668	1.680	1.780	1.718	1.871	1.706	1.900	2.041	1.120	1.108	
United States ^{1/}....	.681	.791	.824	.720	.691	.670	.660	.748	.867	.717	.651	.254
Canada.....	.071	.068	.000	.000	.000	.000	.000	.000	.062	.000	.034	.032	
OECD Europe ^{2/}....	.812	.677	.642	.814	.885	.997	.895	.849	.756	1.041	.350	.813
Main European Importers													
France.....	.149	.157	.137	.160	.117	.196	.098	.194	.054	.180	.064	.068	
Germany ^{3/}.....	.036	.001	.000	.001	.001	.031	.013	.023	.007	.009	.000	.005
Italy.....	.080	.109	.130	.098	.149	.190	.183	.148	.174	.168	.047	.168	
Spain.....	.144	.132	.166	.063	.100	.131	.192	.128	.131	.136	.031	.131	
Netherlands.....	.151	.121	.066	.276	.221	.110	.254	.166	.178	.248	.104	.131	
Smaller European Importers													
Austria.....	.017	.032	.000	.060	.057	.028	.026	.030	.047	.067	.034	.029	
Belgium.....	.001	.000	.032	.024	.027	.036	.013	.012	.029	.041	.037	.068	
Greece.....	.036	.032	.033	.032	.064	.000	.032	.031	.042	.076	.011	.000	
Portugal.....	.037	.033	.032	.004	.032	.065	.000	.033	.066	.068	.000	.033	
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Turkey.....	.162	.060	.046	.096	.116	.210	.084	.084	.029	.047	.021	.182	
Japan.....	.036	.000	.135	.096	.152	.000	.296	.084	.133	.225	.032	.000	
Other OECD.....	.042	.053	.067	.050	.052	.052	.021	.025	.082	.059	.053	.008	

^{1/} U.S. geographic coverage is the 50 States and District of Columbia.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

^{3/} Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.14 OECD Imports from Kuwait (Most Recent 12 Months)
(Million Barrels per Day)

	1999											2000	
	Feb	Mar	April	May	June	July	August	Sept	Oct	Nov	Dec	Jan	
Total.....	0.989	1.179	0.885	1.072	0.934	0.996	1.065	0.964	0.938	0.893	1.051	1.035	
United States ^{1/}....	.205	.324	.286	.227	.259	.311	.348	.261	.206	.216	.200	.239
Canada.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.000	.000	
OECD Europe ^{2/}....	.180	.265	.103	.249	.234	.200	.235	.165	.232	.191	.306	.349
Main European Importers													
France.....	.036	.067	.001	.065	.055	.000	.064	.000	.046	.000	.079	.022	
Germany ^{3/}.....	.012	.020	.037	.006	.016	.022	.019	.000	.021	.011	.005	.005
Italy.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.030	.030	
Spain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.044	.019	
Netherlands.....	.103	.164	.048	.172	.131	.161	.133	.149	.139	.148	.123	.229	
European Net Exporters													
United Kingdom....	.000	.000	.000	.000	.008	.001	.005	.011	.014	.016	.010	.011	
Smaller European Importers													
Belgium.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.015	
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.013	
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Greece.....	.000	.000	.000	.000	.014	.000	.000	.000	.000	.000	.000	.000	
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Turkey.....	.030	.015	.016	.006	.010	.015	.015	.005	.013	.016	.015	.007	
Japan.....	.602	.588	.494	.577	.435	.483	.468	.522	.499	.479	.544	.445	
Other OECD.....	.002	.002	.002	.020	.005	.002	.014	.016	.001	.002	.001	.002	

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

3/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Sources for Section 3 (International Oil Imports)

Oil Imports

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1998 and Petroleum Supply Monthly, April 2000. Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1998-2000.

**4. Historical Oil Data Series
1970-1999**

Table 4.1a World Crude Oil Production (Including Lease Condensate), 1970-1999
 (Thousands Barrels per Day)

	Algeria	Indo-nesia	Iran	Iraq	Kuwait ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	United Arab Emirates	Vene-zuela	Total OPEC
1970 Average.....	1,029	854	3,829	1,549	2,990	3,318	1,083	362	3,799	780	3,708	23,301
1971 Average.....	785	892	4,540	1,694	3,197	2,761	1,531	431	4,769	1,060	3,549	25,209
1972 Average.....	1,062	1,081	5,023	1,466	3,283	2,239	1,816	482	6,016	1,203	3,220	26,891
1973 Average.....	1,097	1,339	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	30,629
1974 Average.....	1,009	1,375	6,022	1,971	2,546	1,521	2,255	518	8,480	1,679	2,976	30,351
1975 Average.....	983	1,307	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	26,771
1976 Average.....	1,075	1,504	5,883	2,415	2,145	1,933	2,067	497	8,577	1,936	2,294	30,327
1977 Average.....	1,152	1,686	5,663	2,348	1,969	2,063	2,085	445	9,245	1,999	2,238	30,893
1978 Average.....	1,231	1,635	5,242	2,563	2,131	1,983	1,897	487	8,301	1,831	2,165	29,464
1979 Average.....	1,224	1,591	3,168	3,477	2,500	2,092	2,302	508	9,532	1,831	2,356	30,581
1980 Average.....	1,106	1,577	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	26,606
1981 Average.....	1,002	1,605	1,380	1,000	1,125	1,140	1,433	405	9,815	1,474	2,102	22,481
1982 Average.....	987	1,339	2,214	1,012	823	1,150	1,295	330	6,483	1,250	1,895	18,778
1983 Average.....	968	1,343	2,440	1,005	1,064	1,105	1,241	295	5,086	1,149	1,801	17,497
1984 Average.....	1,014	1,412	2,174	1,209	1,157	1,087	1,388	394	4,663	1,146	1,798	17,442
1985 Average.....	1,037	1,325	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	16,181
1986 Average.....	945	1,390	2,035	1,690	1,419	1,034	1,467	308	4,870	1,330	1,787	18,275
1987 Average.....	1,048	1,343	2,298	2,079	1,585	972	1,341	293	4,265	1,541	1,752	18,517
1988 Average.....	1,040	1,342	2,240	2,685	1,492	1,175	1,450	346	5,086	1,565	1,903	20,324
1989 Average.....	1,095	1,409	2,810	2,897	1,783	1,150	1,716	380	5,064	1,860	1,907	22,071
1990 Average.....	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1991 Average.....	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average.....	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average.....	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average.....	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average.....	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average	1,277	1,520	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,710
1998 Average	1,246	1,518	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,774
1999 Average P.....	1,202	1,504	3,557	2,508	1,898	1,319	2,130	694	7,833	2,169	2,826	27,641

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1970 through 1989 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

P=Preliminary.

Notes: •OPEC=Organization of Petroleum Exporting Countries.

Sources: See end of Section 4.

Table 4.1b World Crude Oil Production (Including Lease Condensate), 1970-1999
 (Thousand Barrels per Day)

	Norway	United Kingdom	North Sea/ 1/	Angola	Argen- tina	Austra- lia	Brazil	Canada	China	Colombia	Ecuador
1970 Average.....	0	2	0	112	393	178	167	1,263	600	219	4
1971 Average.....	6	2	6	93	423	309	174	1,348	780	214	4
1972 Average.....	33	2	35	140	433	327	167	1,532	900	196	78
1973 Average.....	32	2	36	162	420	369	169	1,798	1,090	184	209
1974 Average.....	35	2	38	169	414	388	176	1,551	1,315	168	177
1975 Average.....	189	12	202	165	395	409	177	1,430	1,490	157	161
1976 Average.....	279	245	525	108	398	426	167	1,314	1,670	146	188
1977 Average.....	280	768	1,055	194	431	431	161	1,321	1,874	138	183
1978 Average.....	356	1,082	1,446	131	453	432	160	1,316	2,082	131	202
1979 Average.....	403	1,568	1,976	147	473	441	166	1,500	2,122	124	214
1980 Average.....	528	1,622	2,151	150	491	380	182	1,435	2,114	126	204
1981 Average.....	501	1,811	2,322	130	496	394	213	1,285	2,012	125	211
1982 Average.....	520	2,065	2,617	122	491	370	260	1,271	2,045	141	211
1983 Average.....	614	2,291	2,965	177	491	416	339	1,356	2,120	152	237
1984 Average.....	697	2,480	3,250	208	478	492	475	1,438	2,296	168	258
1985 Average.....	788	2,530	3,417	231	460	575	564	1,471	2,505	176	281
1986 Average.....	870	2,539	3,547	282	434	520	572	1,474	2,620	305	293
1987 Average.....	1,022	2,406	3,584	360	428	547	566	1,535	2,690	385	174
1988 Average.....	1,158	2,232	3,540	452	449	538	554	1,616	2,730	378	302
1989 Average.....	1,554	1,802	3,515	455	460	490	596	1,560	2,757	403	279
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 Average	3,143	2,518	5,830	714	834	588	841	1,922	3,200	652	388
1998 Average	3,017	2,616	5,806	735	847	544	969	1,981	3,198	733	R375
1999 Average P.....	3,018	2,684	5,949	766	802	539	1,094	1,907	3,206	817	373

1/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

P=Preliminary.

Sources: See end of Section 4.

Table 4.1c World Crude Oil Production (Including Lease Condensate), 1970-1999
 (Thousands Barrels per Day)

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other ¹ / World
1970 Average.....	326	109	144	18	487	332	--	6,985	80	9,637	1,529 45,886
1971 Average.....	293	115	143	69	486	294	--	7,475	100	9,463	1,518 48,518
1972 Average.....	231	125	156	93	505	282	--	7,890	124	9,441	1,592 51,138
1973 Average.....	165	150	147	91	465	293	--	8,324	105	9,208	1,667 55,679
1974 Average.....	150	202	156	81	571	290	--	8,912	124	8,774	1,711 55,716
1975 Average.....	235	223	165	98	705	343	--	9,523	170	8,375	1,636 52,828
1976 Average.....	330	223	175	165	831	366	--	10,060	175	8,132	1,620 57,344
1977 Average.....	415	222	199	184	981	341	--	10,603	188	8,245	1,655 59,707
1978 Average.....	485	209	226	217	1,209	315	--	11,105	170	8,707	1,706 60,158
1979 Average.....	525	203	245	283	1,461	295	--	11,384	166	8,552	1,821 62,674
1980 Average.....	595	175	182	283	1,936	282	--	11,706	164	8,597	1,842 59,600
1981 Average.....	598	151	325	264	2,313	319	--	11,850	166	8,572	1,859 56,076
1982 Average.....	670	156	390	306	2,748	324	--	11,912	160	8,649	1,892 53,481
1983 Average.....	727	157	480	365	2,689	375	--	11,972	167	8,688	1,946 53,256
1984 Average.....	822	157	519	440	2,780	414	--	11,861	170	8,879	2,015 54,489
1985 Average.....	887	172	620	440	2,745	498	--	11,585	178	8,971	2,124 53,982
1986 Average.....	813	166	630	504	2,435	560	--	11,895	194	8,680	2,166 56,227
1987 Average.....	896	155	609	497	2,548	582	--	12,050	230	8,349	2,120 56,666
1988 Average.....	848	159	635	540	2,512	617	--	12,053	265	8,140	2,235 58,737
1989 Average.....	865	208	700	585	2,520	641	--	11,715	340	7,613	2,249 59,863
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253 60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274 60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,229 60,213
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,279 60,236
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,380 60,991
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,414 62,335
1996 Average.....	922	368	651	695	2,855	883	5,850	--	582	6,465	3,490 63,711
1997 Average	856	370	675	R700	3,023	904	5,920	--	561	6,452	3,719 65,690
1998 Average	834	361	661	733	3,070	900	5,854	--	553	6,252	3,955 66,962
1999 Average P....	852	340	653	720	2,906	899	6,079	--	538	5,925	3,938 65,697

¹/ Other is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC" (Table 1.1a) and all other countries listed (Tables 1.1b and 1.1c). The total "North Sea" is not subtracted from the world total, though Norway and the United Kingdom have been subtracted.

-- = Not applicable. P=Preliminary.

Sources: See end of Section 4.

Table 4.2 OPEC Crude Oil Production (Excluding Condensate), 1980-1999
 (Thousands Barrels per Day)

	Algeria	Indo-nesia	Iran	Iraq	Kuwait ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	United Arab Emirates	Vene-zuela	Total OPEC
1980 Average...	1,006	1,497	1,662	2,514	1,656	1,787	2,045	472	9,900	1,704	2,147	26,390
1981 Average...	802	1,513	1,380	1,000	1,125	1,140	1,423	405	9,815	1,469	2,083	22,155
1982 Average...	712	1,247	2,214	1,012	823	1,150	1,285	330	6,483	1,215	1,878	18,349
1983 Average...	648	1,245	2,440	1,005	1,064	1,105	1,231	295	5,086	1,109	1,768	16,996
1984 Average...	694	1,279	2,174	1,209	1,157	1,087	1,368	394	4,663	1,091	1,689	16,805
1985 Average...	702	1,181	2,250	1,433	1,023	1,059	1,475	301	3,388	1,133	1,558	15,503
1986 Average...	600	1,257	2,035	1,690	1,419	1,034	1,447	308	4,870	1,270	1,645	17,575
1987 Average...	648	1,189	2,298	2,079	1,585	972	1,291	293	4,265	1,441	1,587	17,648
1988 Average...	640	1,177	2,240	2,685	1,492	1,175	1,400	346	5,086	1,465	1,715	19,421
1989 Average...	690	1,231	2,810	2,897	1,783	1,150	1,666	380	5,064	1,783	1,747	21,201
1990 Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,100	22,461
1991 Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992 Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993 Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994 Average...	750	1,334	3,583	548	2,025	1,378	1,821	380	8,120	2,113	2,542	24,594
1995 Average...	767	1,343	3,608	555	2,057	1,390	1,878	407	8,231	2,148	2,710	25,094
1996 Average...	812	1,367	3,651	574	2,062	1,401	1,885	475	8,218	2,198	2,898	25,541
1997 Average...	847	1,355	3,629	1,150	2,007	1,446	2,017	515	8,362	2,236	3,240	26,804
1998 Average...	816	1,338	3,599	2,145	2,085	1,390	2,043	661	8,389	2,265	3,127	27,858
1999 Average P.	772	1,324	3,522	2,503	1,898	1,319	2,020	659	7,833	2,089	2,786	26,726

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

P=Preliminary.

Note: OPEC=Organization of Petroleum Exporting Countries. See Appendix A for Countries in this group.

Sources: See end of Section 4.

Table 4.3 World Natural Gas Plant Liquids Production, 1970-1999
 (Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1970 Average.....	3	200	58	50	--	120	1,660	119	137	205	2,383
1971 Average.....	4	234	59	50	--	135	1,693	138	147	243	2,508
1972 Average.....	4	293	61	55	--	155	1,744	155	159	275	2,676
1973 Average.....	9	314	75	90	--	170	1,738	191	196	324	2,785
1974 Average.....	12	314	80	130	--	190	1,688	231	219	347	2,789
1975 Average.....	20	309	80	140	--	205	1,633	246	252	372	2,790
1976 Average.....	24	289	95	185	--	220	1,603	291	313	442	2,865
1977 Average.....	19	290	105	215	--	235	1,618	335	366	482	2,982
1978 Average.....	25	281	115	250	--	255	1,567	410	447	566	3,078
1979 Average.....	30	331	150	303	--	270	1,584	458	535	637	3,285
1980 Average.....	36	331	193	369	--	285	1,573	534	618	732	3,444
1981 Average.....	49	330	241	433	--	300	1,609	599	691	825	3,625
1982 Average.....	58	318	255	430	--	315	1,550	612	721	842	3,626
1983 Average.....	56	309	265	330	--	330	1,559	552	655	780	3,635
1984 Average.....	105	336	257	355	--	340	1,630	604	761	869	3,869
1985 Average.....	120	337	271	375	--	350	1,609	645	808	892	3,938
1986 Average.....	120	328	352	385	--	440	1,551	700	860	969	4,150
1987 Average.....	140	367	338	418	--	430	1,595	721	900	1,006	4,279
1988 Average.....	120	381	370	499	--	450	1,625	808	979	1,077	4,481
1989 Average.....	130	410	384	503	--	425	1,546	851	1,041	1,188	4,502
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,974
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,180
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,292
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	185	--	1,830	1,082	1,295	1,501	5,576
1997 Average.....	160	636	388	712	195	--	1,817	1,152	1,384	1,589	5,721
1998 Average.....	155	651	424	755	220	--	1,759	1,225	1,449	1,662	5,866
1999 Average P....	155	653	439	666	225	--	1,834	1,152	1,374	1,617	5,902

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} See Appendix A for countries in this group.

^{3/} OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

P=Preliminary.

Sources: See end of Section 4.

Table 4.4 World Oil Supply, 1970-1999
 (Thousand Barrels per Day)

	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1970 Average.....	11,673	13,541	14,571	23,567	48,986
1971 Average.....	11,554	15,940	15,427	25,514	51,766
1972 Average.....	11,601	17,734	16,451	27,228	54,574
1973 Average.....	11,428	20,895	18,656	31,015	59,300
1974 Average.....	10,978	21,550	18,399	30,762	59,391
1975 Average.....	10,505	19,223	16,831	27,218	56,511
1976 Average.....	10,251	21,847	19,563	30,841	61,121
1977 Average.....	10,437	22,098	20,372	31,443	63,665
1978 Average.....	10,820	21,067	19,819	30,120	64,225
1979 Average.....	10,707	21,569	22,575	31,300	66,973
1980 Average.....	10,809	18,541	20,715	27,419	64,152
1981 Average.....	10,739	15,894	17,619	23,393	60,761
1982 Average.....	10,783	12,815	13,786	19,702	58,225
1983 Average.....	10,788	11,676	12,416	18,352	58,054
1984 Average.....	11,107	11,433	12,619	18,389	59,644
1985 Average.....	11,192	10,320	11,498	17,151	59,262
1986 Average.....	10,905	12,441	13,653	19,310	61,769
1987 Average.....	10,648	12,869	13,992	19,589	62,427
1988 Average.....	10,473	14,310	15,662	21,465	64,705
1989 Average.....	9,880	15,733	16,658	23,323	65,892
1990 Average.....	9,677	16,249	17,232	24,536	66,754
1991 Average.....	9,883	15,704	16,747	24,625	66,632
1992 Average.....	9,768	17,010	17,871	25,818	66,961
1993 Average.....	9,602	17,792	18,505	26,610	67,348
1994 Average.....	9,413	18,072	18,745	27,031	68,228
1995 Average.....	9,400	18,351	19,069	27,566	69,837
1996 Average.....	9,445	18,486	19,237	28,018	71,390
1997 Average.....	9,461	19,284	20,067	29,355	73,650
1998 Average.....	9,278	20,599	21,282	30,492	75,151
1999 Average P.....	9,069	19,884	20,531	29,314	74,005

1/ U.S. geographic coverage is the 50 States and the District of Columbia.

2/ See Appendix A for countries in this group.

3/ OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

P=Preliminary.

Note: Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See

Explanatory Note 1 in Appendix B.

Sources: See end of Section 4.

Table 4.5 Oil Stocks in OECD Countries, End of Year
(Million Barrels)

		France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1973	December.....	201	152	181	156	1,070	1,008	140	303	67	2,588
1974	December.....	249	167	213	191	1,227	1,074	145	370	64	2,880
1975	December.....	225	143	187	165	1,154	1,133	174	375	67	2,903
1976	December.....	234	143	208	165	1,205	1,112	153	380	68	2,918
1977	December.....	239	161	225	148	1,268	1,312	167	409	68	3,224
1978	December.....	201	154	238	157	1,219	1,278	144	413	68	3,122
1979	December.....	226	163	272	169	1,353	1,341	150	460	75	3,379
1980	December.....	243	170	319	168	1,464	1,392	164	495	72	3,587
1981	December.....	214	167	297	143	1,337	1,484	161	482	67	3,531
1982	December.....	193	179	272	125	1,258	1,430	136	484	68	3,376
1983	December.....	153	149	249	118	1,142	1,454	121	470	68	3,255
1984	December.....	152	159	239	112	1,130	1,556	128	479	69	3,362
1985	December.....	139	157	233	123	1,092	1,519	113	494	66	3,284
1986	December.....	127	155	252	124	1,133	1,593	111	509	72	3,418
1987	December.....	127	169	259	121	1,130	1,607	126	540	71	3,474
1988	December.....	140	155	266	112	1,118	1,597	116	538	71	3,440
1989	December.....	138	164	271	118	1,133	1,581	114	577	71	3,476
1990	December.....	140	172	265	112	1,163	1,621	121	590	73	3,568
1991	December.....	153	160	288	119	1,181	1,617	119	606	65	3,588
1992	December.....	146	174	310	113	1,219	1,592	107	603	67	3,588
1993	December.....	158	163	309	118	1,221	1,647	105	618	69	3,661
1994	December.....	158	164	312	115	1,240	1,653	119	645	69	3,726
1995	December.....	159	162	301	107	1,228	1,563	109	630	71	3,601
1996	December.....	158	152	300	108	1,256	1,507	103	651	74	3,591
1997	December.....	164	147	298	105	1,256	1,560	115	685	74	3,689
1998	December.....	161	153	321	108	1,304	1,647	118	649	66	3,784
1999	December P...	163	148	287	105	1,233	1,486	117	629	68	3,532

^{1/} Data through December 1990 are for the former West Germany. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} U.S. geographic coverage is the 50 States and the District of Columbia. In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported. Using the new basis, the end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982.

^{4/} "Other" consists of Australia, New Zealand, and the U.S. Territories.

P=Preliminary.

Note: Oil Stocks - See Explanatory Note 2 in Appendix B.

Sources: See end of Section 4.

Table 4.6 World Oil Demand, 1970-1999
(Thousand Barrels per Day)

	France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	OECD Excluding East Germany	East Germany	OECD Including East Germany	World Total
1970 Average...	1,937	1,710	2,607	2,096	12,404	14,697	1,516	3,817	836	33,270	223	33,493	46,808
1971 Average...	2,115	1,838	2,702	2,141	13,005	15,213	1,565	4,142	831	34,755	238	34,993	49,416
1972 Average...	2,322	1,947	2,859	2,284	13,934	16,367	1,664	4,363	948	37,275	270	37,545	53,094
1973 Average...	2,601	2,068	3,055	2,341	14,925	17,308	1,729	4,949	988	39,900	282	40,182	57,237
1974 Average...	2,447	2,004	2,748	2,210	13,988	16,653	1,779	4,864	1,095	38,379	307	38,686	56,677
1975 Average...	2,252	1,855	2,650	1,911	13,217	16,322	1,779	4,621	1,041	36,980	307	37,287	56,198
1976 Average...	2,420	1,971	2,877	1,892	14,124	17,461	1,818	4,837	1,119	39,358	329	39,687	59,673
1977 Average...	2,294	1,897	2,865	1,905	13,916	18,431	1,850	4,880	1,160	40,237	347	40,584	61,826
1978 Average...	2,408	1,952	2,927	1,938	14,290	18,847	1,902	4,945	1,204	41,187	363	41,550	64,158
1979 Average...	2,463	2,039	3,003	1,971	14,667	18,513	1,971	5,050	1,178	41,379	369	41,748	65,220
1980 Average...	2,256	1,934	2,707	1,725	13,634	17,056	1,873	4,960	1,072	38,595	375	38,970	63,067
1981 Average...	2,023	1,874	2,449	1,590	12,515	16,058	1,768	4,848	1,080	36,269	355	36,624	60,903
1982 Average...	1,880	1,781	2,372	1,590	12,053	15,296	1,578	4,582	1,008	34,517	371	34,888	59,503
1983 Average...	1,835	1,750	2,324	1,531	11,765	15,231	1,448	4,395	953	33,793	336	34,129	58,739
1984 Average...	1,754	1,646	2,322	1,849	11,736	15,726	1,472	4,576	990	34,500	340	34,840	59,831
1985 Average...	1,775	1,717	2,338	1,634	11,681	15,726	1,504	4,384	976	34,271	362	34,633	60,091
1986 Average...	1,772	1,738	2,498	1,649	12,102	16,281	1,506	4,439	951	35,279	362	35,641	61,759
1987 Average...	1,789	1,855	2,424	1,603	12,255	16,665	1,548	4,484	959	35,911	342	36,253	62,999
1988 Average...	1,797	1,836	2,422	1,697	12,427	17,283	1,693	4,752	939	37,093	322	37,415	64,819
1989 Average...	1,857	1,930	2,280	1,738	12,531	17,325	1,733	4,983	998	37,570	300	37,871	65,917
1990 Average...	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475	282	37,758	65,977
1991 Average...	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	--	--	38,067	66,567
1992 Average...	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	R1,051	--	--	R38,778	R66,762
1993 Average...	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,117	--	--	38,966	R66,996
1994 Average...	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,171	--	--	39,887	R68,283
1995 Average...	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,265	--	--	40,575	R69,866
1996 Average...	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,190	--	--	41,432	71,319
1997 Average...	1,955	2,045	2,903	1,799	14,433	18,620	1,857	5,711	1,221	--	--	41,843	73,001
1998 Average...	2,032	2,072	2,916	1,784	14,720	18,917	1,873	5,512	1,275	--	--	42,297	73,644
1999 Average P.	2,029	1,984	2,832	1,710	14,543	19,389	1,878	5,566	1,333	--	--	42,708	74,581

^{1/} Data through 1990 are for the former West Germany. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and the U.S. Territories.

P=Preliminary. --=Not Applicable. R=Revised data.

Note: The term Demand is used interchangeably with Consumption and Petroleum Products Supplied. See Appendix C for definition.

Sources: See end of Section 4.

Table 4.7 OECD Total Net Imports, 1989-1999
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total.....	20.077	20.443	20.143	20.508	20.937	20.834	20.422	21.149	21.755	22.401	21.870
United States ^{1/}	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.764	9.612
Canada.....	-.462	-.429	-.486	-.553	-.594	-.632	-.763	-.812	-.829	-.917	-.825
OECD Europe ^{2/}	7.988	8.201	8.452	8.325	7.990	7.216	7.092	7.198	7.193	7.739	7.059
Main European Importers											
France.....	1.709	1.750	1.851	1.766	1.741	1.596	1.702	1.716	1.747	1.855	1.886
Germany ^{3/}	2.112	2.202	2.642	2.714	2.697	2.704	2.673	2.766	2.778	2.860	2.608
Italy.....	1.716	1.788	1.750	1.819	1.728	1.760	1.802	1.773	1.775	1.809	1.731
Netherlands.....	.635	.668	.677	.699	.674	.706	.686	.748	.758	.765	.753
Spain.....	.949	.950	.937	.985	1.054	1.105	1.188	1.169	1.260	1.350	1.385
European Net Exporters											
Norway.....	-1.420	-1.543	-1.825	-2.102	-2.255	-2.587	-2.795	-3.150	-3.176	-3.043	-3.028
United Kingdom....	-.200	-.214	-.170	-.233	-.368	-.861	-.980	-.850	-.980	-1.030	-1.261
Smaller European Importers											
Austria.....	.190	.201	.210	.207	.203	.208	.194	.213	.221	.234	.230
Belgium.....	.454	.442	.498	.510	.496	.510	.488	.564	.581	.605	.549
Denmark.....	.078	.063	.046	.031	.022	.025	.038	.027	-.007	-.004	-.089
Ireland.....	.079	.095	.094	.096	.101	.109	.115	.123	.133	.147	.165
Finland.....	.220	.208	.200	.185	.180	.231	.143	.178	.184	.208	.208
Greece.....	.252	.273	.293	.322	.323	.289	.339	.346	.356	.382	.361
Iceland.....	.011	.011	.012	.011	.014	.015	.015	.015	.016	.017	.018
Luxembourg.....	.031	.034	.039	.040	.039	.040	.036	.039	.040	.043	.044
Portugal.....	.246	.250	.256	.276	.269	.266	.287	.271	.292	.321	.340
Sweden.....	.290	.324	.308	.316	.330	.357	.351	.400	.365	.378	.347
Switzerland.....	.254	.273	.272	.276	.249	.261	.247	.258	.268	.277	.256
Turkey.....	.384	.425	.361	.407	.494	.484	.563	.594	.583	.565	.554
Japan.....	5.035	5.239	5.237	5.413	5.415	5.711	5.662	5.736	5.762	5.352	5.463
Other OECD.....	.313	.270	.314	.384	.507	.483	.546	.529	.471	.463	.561

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.8 OECD Imports from OPEC, 1989-1999
(Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	Average										
Total.....	14.521	15.576	15.360	15.567	16.018	15.765	15.469	15.630	16.540	17.048	16.124
United States ^{1/}	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881	4.834
Canada.....	.205	.199	.210	.210	.268	.285	.257	.261	.312	.297	.300
OECD Europe ^{2/}	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.260	6.693	5.923
Main European Importers											
France.....	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029	.918
Germany ^{3/}.....	.739	.771	.859	.957	.948	.838	.711	.660	.645	.656	.597
Italy.....	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421	1.234
Netherlands.....	.892	.850	.900	.914	.982	.906	.791	.779	.774	.849	.791
Spain.....	.686	.652	.700	.632	.582	.668	.781	.775	.789	.867	.814
European Net Exporters											
Norway.....	.003	.007	.014	.004	.005	.003	.003	.001	.003	.000	.001
United Kingdom....	.342	.406	.377	.390	.439	.306	.254	.234	.199	.213	.135
Smaller European Importers											
Austria.....	.086	.097	.108	.115	.128	.119	.057	.023	.130	.122	.107
Belgium.....	.353	.313	.362	.359	.359	.284	.276	.284	.292	.341	.222
Denmark.....	.069	.044	.006	.001	.006	.008	.022	.027	.031	.033	.030
Ireland.....	-	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Finland.....	.013	.013	.029	.033	.007	.004	.004	.001	.006	.004	.000
Greece.....	.244	.340	.298	.346	.303	.266	.263	.280	.317	.352	.319
Portugal.....	.156	.166	.139	.152	.166	.227	.209	.177	.188	.184	.163
Sweden.....	.064	.073	.105	.116	.123	.126	.109	.091	.096	.100	.081
Switzerland.....	.021	.036	.052	.051	.063	.082	.083	.098	.096	.102	.101
Turkey.....	.384	.388	.365	.412	.452	.475	.477	.483	.442	.418	.409
Japan.....	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467	4.403
Other OECD.....	.355	.510	.478	.512	.609	.563	.612	.653	.727	.710	.664

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.9 OECD Imports from Persian Gulf, 1989-1999
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Imports from Persian Gulf											
Total.....	9.121	9.667	9.249	9.456	10.029	9.609	9.310	9.215	9.952	10.551	10.085
United States ^{1/}	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131	2.419
Canada.....	.069	.081	.084	.092	.105	.119	.070	.111	.120	.098	.088
OECD Europe ^{2/}	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953	3.306
Main European Importers											
France.....	.647	.864	.708	.640	.757	.651	.647	.573	.617	.730	.629
Germany ^{3/}.....	.216	.217	.227	.215	.250	.217	.172	.145	.157	.163	.140
Italy.....	.619	.626	.595	.573	.548	.430	.494	.502	.583	.658	.570
Netherlands.....	.663	.647	.609	.650	.744	.662	.563	.566	.584	.676	.622
Spain.....	.352	.291	.281	.231	.287	.275	.324	.304	.359	.419	.339
European Net Exporters											
Norway.....	-	.000	.011	.000	.000	.000	.000	.000	.000	.000	-
United Kingdom....	.240	.250	.222	.220	.303	.174	.135	.102	.094	.108	.031
Smaller European Importers											
Austria.....	.022	.016	.021	.031	.036	.038	.035	.004	.045	.049	.045
Belgium.....	.277	.250	.279	.292	.291	.232	.252	.263	.259	.307	.182
Denmark.....	.067	.043	.004	.000	.002	.000	.000	.000	.002	.007	.002
Finland.....	.012	.011	.021	.023	.002	.002	.002	.000	.000	.001	.000
Greece.....	.181	.268	.219	.291	.253	.214	.223	.235	.282	.322	.283
Portugal.....	.085	.073	.067	.074	.050	.117	.107	.083	.106	.136	.110
Sweden.....	.043	.039	.064	.068	.088	.076	.068	.067	.073	.071	.060
Switzerland.....	.007	.007	.007	.007	.008	.012	.007	.006	.008	.009	.007
Turkey.....	.323	.307	.324	.349	.429	.405	.336	.320	.301	.296	.284
Japan.....	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132	4.051
Other OECD.....	.267	.322	.300	.338	.381	.316	.334	.313	.311	.237	.222

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.10 United States--Net Oil Imports, 1989-1999
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.764	9.612
Imports from OPEC ^{1/}	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881	4.834
Imports from Persian Gulf ^{2/}											
Total.....	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131	2.419
Bahrain.....	-.001	-.001	-.001	-.002	-.002	-.002	-.003	-.002	-.002	-.001	.000
Iran.....	.000	.000	.032	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.449	.518	.000	.000	.000	.000	.000	.001	.089	.336	.707
Kuwait.....	.157	.086	.006	.051	.353	.312	.218	.236	.253	.301	.248
U.A.E.....	.027	.016	.001	.004	.009	.011	.004	-.003	-.003	.000	-.002
Qatar.....	.002	.004	.000	.001	.001	.000	.000	.000	.004	.004	.010
Saudi Arabia.....	1.224	1.339	1.797	1.720	1.414	1.402	1.344	1.363	1.406	1.491	1.456
Imports from OPEC-Africa											
Total.....	1.084	1.080	.956	.876	.956	.880	.859	.872	.979	.983	.906
Algeria.....	.269	.280	.253	.196	.220	.243	.234	.256	.285	.290	.255
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.815	.800	.703	.680	.736	.637	.625	.616	.694	.693	.651
Imports from OPEC-South America											
Total.....	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701	1.435
Venezuela.....	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701	1.435
Imports from OPEC-Far East											
Total.....	.182	.113	.106	.075	.074	.109	.087	.058	.057	.065	.074
Indonesia.....	.182	.113	.106	.075	.074	.109	.087	.058	.057	.065	.074

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade.

•Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.11 Japan--Net Oil Imports, 1989-1999
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	5.035	5.239	5.237	5.413	5.415	5.711	5.662	5.736	5.762	5.352	5.463
Imports from OPEC ^{1/}	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467	4.403
Imports from Persian Gulf ^{2/}											
Total.....	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132	4.051
Bahrain.....	.042	.037	.037	.029	.025	.028	.029	.033	.023	.016	.017
Iran.....	.291	.385	.383	.362	.384	.459	.399	.451	.461	.473	.502
Iraq.....	.219	.146	.000	.000	.000	.000	.000	.000	.015	.017	.099
Kuwait.....	.458	.291	.014	.220	.368	.430	.501	.500	.557	.507	.515
U.A.E.....	.929	1.032	1.285	1.256	1.287	1.398	1.420	1.396	1.441	1.402	1.266
Qatar.....	.250	.263	.285	.300	.330	.328	.335	.335	.364	.450	.442
Saudi Arabia.....	.984	1.240	1.367	1.420	1.327	1.303	1.296	1.310	1.441	1.268	1.210
Imports from OPEC-Africa											
Total.....	.015	.011	.011	.007	.008	.017	.026	.032	.036	.025	.038
Algeria.....	.015	.010	.010	.007	.008	.012	.011	.012	.014	.012	.013
Nigeria.....	-	.001	.001	.000	.000	.005	.016	.020	.023	.013	.025
Imports from OPEC-South America											
Total.....	.011	.011	.010	.010	.009	.009	.002	.003	.003	.000	.001
Venezuela.....	.011	.011	.010	.010	.009	.009	.002	.003	.003	.000	.001
Imports from OPEC-Far East											
Total.....	.631	.682	.673	.624	.533	.551	.488	.442	.380	.326	.329
Indonesia.....	.631	.682	.673	.624	.533	.551	.488	.442	.380	.326	.329

^{1/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{2/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.12 OECD Europe--Net Oil Imports, 1989-1999
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	7.988	8.201	8.452	8.325	7.990	7.216	7.092	7.198	7.193	7.739	7.059
Imports from OPEC ^{1/}	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.260	6.693	5.923
Imports from Persian Gulf ^{2/}											
Total.....	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953	3.306
Bahrain.....	.005	.020	.002	.003	.004	.003	.000	.001	.001	.004	.001
Iran.....	1.076	1.190	1.132	1.113	1.253	1.074	1.149	1.059	.942	1.021	.942
Iraq.....	.897	.591	.000	.000	.001	.000	.000	.006	.336	.724	.808
Kuwait.....	.452	.346	.019	.142	.461	.302	.269	.288	.249	.275	.222
U.A.E.....	.214	.446	.281	.199	.092	.067	.011	.004	.009	.019	.006
Qatar.....	.024	.026	.009	.006	.000	.000	.002	.002	.000	.000	.000
Saudi Arabia.....	1.086	1.290	2.217	2.203	2.237	2.060	1.933	1.811	1.932	1.910	1.328
Imports from OPEC-Africa											
Total.....	2.224	2.509	2.818	2.818	2.491	2.644	2.500	2.644	2.569	2.505	2.400
Algeria.....	.648	.683	.757	.772	.693	.690	.724	.746	.681	.708	.704
Libya.....	1.044	1.267	1.332	1.361	1.193	1.233	1.201	1.204	1.268	1.297	1.251
Nigeria.....	.532	.559	.729	.686	.605	.721	.575	.694	.620	.501	.445
Imports from OPEC-South America											
Total.....	.212	.227	.249	.268	.240	.219	.273	.206	.206	.215	.213
Venezuela.....	.212	.227	.249	.268	.240	.219	.273	.206	.206	.215	.213
Imports from OPEC-Far East											
Total.....	.004	.008	.002	.009	.019	.019	.017	.033	.017	.024	.005
Indonesia.....	.004	.008	.002	.009	.019	.019	.017	.033	.017	.024	.005

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •"OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.13 France--Net Oil Imports, 1989-1999
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	1.709	1.750	1.851	1.766	1.741	1.596	1.702	1.716	1.747	1.855	1.886
Imports from OPEC ^{1/}	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029	.918
Imports from Persian Gulf ^{2/}											
Total.....	.647	.864	.708	.640	.757	.651	.647	.573	.617	.730	.629
Bahrain.....	.002	.011	.000	.001	.002	.000	.000	.001	.000	.002	.001
Iran.....	.158	.182	.171	.151	.243	.156	.208	.172	.127	.157	.137
Iraq.....	.128	.062	.000	.000	.000	.000	.000	.000	.078	.171	.148
Kuwait.....	.021	.015	.011	.029	.032	.016	.022	.017	.017	.019	.037
U.A.E.....	.040	.233	.064	.033	.025	.003	.002	.001	.000	.012	.001
Qatar.....	.009	.022	.003	.002	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.288	.339	.459	.424	.454	.477	.416	.381	.394	.369	.304
Imports from OPEC-Africa											
Total.....	.218	.233	.296	.281	.242	.301	.262	.323	.282	.301	.284
Algeria.....	.089	.092	.107	.105	.066	.089	.103	.105	.131	.115	.118
Libya.....	.065	.079	.104	.087	.063	.059	.043	.051	.060	.061	.067
Nigeria.....	.064	.062	.084	.090	.112	.153	.115	.168	.091	.126	.099
Imports from OPEC-South America											
Total.....	.012	.015	.017	.011	.010	.003	.002	.001	.000	.000	.002
Venezuela.....	.012	.015	.017	.011	.010	.003	.002	.001	.000	.000	.002
Imports from OPEC-Far East											
Total.....	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000	.004
Indonesia.....	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000	.004

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.14 Germany--Net Oil Imports, 1989-1999
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	2.112	2.202	2.642	2.714	2.697	2.704	2.673	2.766	2.778	2.860	2.608
Imports from OPEC ^{1/}	.739	.771	.859	.957	.948	.838	.711	.660	.645	.656	.597
Imports from Persian Gulf ^{2/}											
Total.....	.216	.217	.227	.215	.250	.217	.172	.145	.157	.163	.140
Bahrain.....	-	-	-	-	.000	.001	.000	.000	.000	.000	-
Iran.....	.041	.055	.053	.021	.053	.040	.031	.018	.023	.020	.016
Iraq.....	.009	.004	.000	.000	.000	.000	.000	.000	.001	.020	.017
Kuwait.....	.022	.013	.000	.009	.022	.026	.015	.016	.012	.016	.015
U.A.E.....	.023	.016	.012	.002	.002	.001	.000	.000	.001	.000	.000
Qatar.....	.002	.003	.002	.001	.000	.000	.000	.000	.000	.000	-
Saudi Arabia.....	.119	.125	.161	.182	.173	.149	.125	.111	.120	.106	.091
Imports from OPEC-Africa											
Total.....	.436	.465	.524	.614	.594	.543	.461	.462	.442	.447	.417
Algeria.....	.106	.098	.126	.183	.195	.161	.135	.125	.095	.127	.098
Libya.....	.235	.244	.262	.252	.244	.244	.234	.258	.246	.277	.296
Nigeria.....	.095	.123	.136	.179	.154	.139	.093	.079	.101	.043	.023
Imports from OPEC-South America											
Total.....	.086	.088	.107	.128	.105	.079	.078	.053	.046	.046	.041
Venezuela.....	.086	.088	.107	.128	.105	.079	.078	.053	.046	.046	.041
Imports from OPEC-Far East											
Total.....	-	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	-	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Data through 1990 are for the former West Germany. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.15 Italy--Net Oil Imports, 1989-1999
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total Net Imports..	1.716	1.788	1.750	1.819	1.728	1.760	1.802	1.773	1.775	1.809	1.731
Imports from OPEC ^{1/}	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421	1.234
Imports from Persian Gulf ^{2/}											
Total.....	.619	.626	.595	.573	.548	.430	.494	.502	.583	.658	.570
Bahrain.....	.001	.000	.001	.001	.000	.000	.000	.001	.000	.002	.000
Iran.....	.124	.192	.231	.239	.221	.143	.233	.263	.258	.273	.269
Iraq.....	.138	.079	.000	.000	.000	.000	.000	.000	.033	.108	.130
Kuwait.....	.093	.063	.000	.007	.012	.001	.000	.000	.000	.000	.003
U.A.E.....	.085	.075	.044	.013	.002	.000	.000	.000	.000	.000	.000
Qatar.....	.008	.000	.004	.001	.000	.000	.002	.002	.000	.000	-
Saudi Arabia.....	.171	.216	.315	.312	.313	.286	.260	.236	.291	.274	.169
Imports from OPEC-Africa											
Total.....	.626	.740	.793	.757	.653	.660	.679	.714	.745	.723	.655
Algeria.....	.150	.155	.155	.140	.096	.099	.100	.110	.086	.083	.111
Libya.....	.430	.556	.581	.584	.542	.543	.562	.580	.609	.601	.516
Nigeria.....	.045	.029	.057	.034	.015	.018	.017	.025	.050	.039	.027
Imports from OPEC-South America											
Total.....	.014	.007	.004	.005	.002	.007	.014	.008	.012	.020	.008
Venezuela.....	.014	.007	.004	.005	.002	.007	.014	.008	.012	.020	.008
Imports from OPEC-Far East											
Total.....	.002	.003	.001	.009	.019	.019	.015	.021	.014	.023	.001
Indonesia.....	.002	.003	.001	.009	.019	.019	.015	.021	.014	.023	.001

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.16 OECD Imports from Iraq, 1989-1999
 (Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total.....	1.581	1.276	0.000	0.000	0.001	0.000	0.000	0.007	0.458	1.109	1.683
United States ^{1/}....	.449	.518	.000	.000	.000	.000	.000	.001	.089	.336	.707
Canada.....	.013	.011	.000	.000	.000	.000	.000	.000	.014	.014	.022
OECD Europe ^{2/}....	.897	.591	.000	.000	.001	.000	.000	.006	.336	.724	.808
Main European Importers											
France.....	.128	.062	.000	.000	.000	.000	.000	.000	.078	.171	.148
Germany ^{3/}.....	.009	.004	.000	.000	.000	.000	.000	.000	.001	.020	.017
Italy.....	.138	.079	.000	.000	.000	.000	.000	.000	.033	.108	.130
Netherlands.....	.101	.117	.000	.000	.000	.000	.000	.000	.024	.113	.170
Spain.....	.109	.063	.000	.000	.000	.000	.000	.002	.074	.130	.123
European Net Exporters											
United Kingdom....	.034	.027	.000	.000	.000	.000	.000	.000	.000	-	-
Smaller European Importers											
Austria.....	.000	.000	.000	.000	.001	.000	.000	.000	.017	.031	.035
Belgium.....	.047	.029	.000	.000	.000	.000	.000	.000	.010	.047	.027
Denmark.....	-	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Greece.....	.052	.044	.000	.000	.000	.000	.000	.000	.013	.013	.032
Portugal.....	.024	.019	.000	.000	.000	.000	.000	.000	.011	.029	.031
Sweden.....	.005	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000
Turkey.....	.250	.146	.000	.000	.000	.000	.000	.003	.074	.063	.094
Japan.....	.219	.146	.000	.000	.000	.000	.000	.000	.015	.017	.099
Other OECD.....	.003	.011	.000	.000	.000	.000	.000	.000	.005	.017	.048

^{1/} U.S. geographic coverage is the 50 States and District of Columbia.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.17 OECD Imports from Kuwait, 1989-1999
(Million Barrels per Day)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Average											
Total.....	1.084	0.740	0.039	0.414	1.191	1.081	0.997	1.034	1.065	1.089	0.991
United States ^{1/}....	.157	.086	.006	.051	.353	.312	.218	.236	.253	.301	.248
Canada.....	-	.004	-	-	.000	.027	.000	.000	.000	.000	.000
OECD Europe ^{2/}....	.452	.346	.019	.142	.461	.302	.269	.288	.249	.275	.222
Main European Importers											
France.....	.021	.015	.011	.029	.032	.016	.022	.017	.017	.019	.037
Germany ^{3/}.....	.022	.013	.000	.009	.022	.026	.015	.016	.012	.016	.015
Italy.....	.093	.063	.000	.007	.012	.001	.000	.000	.000	.000	.003
Netherlands.....	.194	.151	.002	.052	.254	.179	.176	.193	.168	.176	.142
Spain.....	.015	.010	.003	.000	.015	.000	.000	.000	.000	.000	.004
European Net Exporters											
Norway.....	-	-	-	-	.000	.000	.000	.000	.000	.000	-
United Kingdom....	.006	.045	.002	.027	.049	.058	.039	.032	.031	.025	.005
Smaller European Importers											
Austria.....	.002	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Belgium.....	-	.000	.001	.006	.056	.005	.004	.015	.004	.014	.001
Denmark.....	.066	.034	.000	.000	.000	.000	.000	.000	.002	.007	.000
Finland.....	-	-	.000	-	-	-	-	-	-	.001	.000
Greece.....	.009	.000	.000	.002	.005	.001	.000	.000	.000	.000	.001
Portugal.....	.003	.002	.000	.000	.000	.000	.000	.000	.000	-	-
Sweden.....	.001	.001	.000	.000	.002	.000	.000	.000	.000	.000	.000
Switzerland.....	-	-	.000	.000	.000	.000	.000	.000	.000	.000	-
Turkey.....	.019	.011	.000	.010	.016	.016	.014	.015	.014	.016	.014
Japan.....	.458	.291	.014	.220	.368	.430	.501	.500	.557	.507	.515
Other OECD.....	.017	.013	.000	.000	.009	.011	.009	.010	.006	.006	.006

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Sources for Section 4 (Historical Oil Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1998; • Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, various issues.

Other Countries: • EIA, International Energy Annual, various issues. • EIA, International Petroleum Annual, 1978. • United Nations, Yearbook of World Energy Statistics, 1979. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, November 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1998.

Other OECD Countries: • 1973-1982: Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • 1983-1999: OECD, Monthly Oil Statistics in the EIA, International Energy Database.

Oil Demand

United States: EIA, Petroleum Supply Annual 1998.

Other OECD Countries: • 1973-1981: OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Annual Oil Statistics data base, 1970-1979. • 1982-1999: OECD, Monthly Oil Statistics in the EIA International Energy Database.

Oil Imports

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1998.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD Monthly Oil Statistics database, 1991-1999.

Appendix A

Organizational and Geographical Definitions

Appendix A. Organizational and Geographical Definitions

International Energy Agency (IEA) countries are: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States.

Organization for Economic Cooperation and Development (OECD) countries are: Australia, Austria, Belgium, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, South Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States. Total OECD includes the United States Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). Total OECD excludes data for Czech Republic, Hungary, Mexico, Poland, and South Korea which are not yet available.

OECD Europe countries are: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, Turkey, and United Kingdom. OECD Europe excludes data for Czech Republic, Hungary, and Poland which are not yet available.

Organization of Petroleum Exporting Countries (OPEC) members are: Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. As of December 31, 1992, Ecuador withdrew its membership in OPEC, and as of December 31, 1994, Gabon withdrew its membership. For consistency, Ecuador and Gabon are excluded in the historical series of OPEC totals.

Arab members of OPEC are: Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia and the United Arab Emirates.

Organization of Arab Petroleum Exporting Countries (OAPEC) are: Algeria, Bahrain, Egypt, Iraq, Kuwait, Libya, Neutral Zone, Qatar, Saudi Arabia, Syria, Tunisia, and the United Arab Emirates. In April 1979 Egypt was suspended from OAPEC membership. In May 1989 Egypt rejoined OAPEC. For consistency, Egypt is included in the historical series of the OAPEC totals.

Persian (Arabian) Gulf countries are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

The term "Former USSR" is being used in the International Petroleum Monthly as a purely geographical expression, referring to the Commonwealth of Independent States (CIS), Georgia, and the three Baltic States (Estonia, Latvia, and Lithuania).

Appendix B

Explanatory Notes

Appendix B. Explanatory Notes

Note 1: World Oil Supply

Supply includes production of crude oil (including lease condensate), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gain, alcohol, and liquids produced from coal and other sources. Beginning in 1993, U.S. data includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

Note 2: Oil Stocks

The International Energy Agency (IEA) assembles and reports total oil stock data for the member countries of the Organization for Economic Cooperation and Development (OECD). Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. In its report titled Quarterly Oil Statistics and Energy Balances of OECD Countries, the IEA defines oil stocks as follows: "All non-military stocks held by importers (including all final consumers directly), refiners, Governments, major non-importing final consumers eligible under IEA/OECD commitments and by foreign entities in the following facilities: bulk terminals, refinery tanks, pipeline tankage, barges, intercoastal tankers (when port of departure and destination are in the reporting country), tankers in port (to the extent that their cargo is to be unloaded in the reporting country), and inland ship bunkers. Oil is reported regardless of the ownership of such storage facilities." IEA data exclude "oil held in pipelines, rail and truck tank cars, sea-going ships' bunkers, service stations, retail stores and tankers at sea." Also the IEA defines the United States to be the 50 States and the District of Columbia, and the U.S. Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). The Energy Information Administration (EIA) does not include the United States Territories in its statistical definition of the United States. Further, the EIA includes oil in oil pipelines as part of its stock data. Tables 1.5, 1.6, 2.3, and 4.4 include oil stocks for the United States according to EIA definitions. Using IEA definitions, at the end of December 1999 United States (including territories) oil stocks totaled 1,346 million barrels.

Note 3: A Change to the Oil Balance in Section 2.

Prior to August 1992, Section 2 of the International Petroleum Monthly presented a balance of oil supply, demand, and stock change for the Market Economies, at quarterly time intervals. The communist countries, or Centrally Planned Economies (CPEs) were not included in the balance, mainly because good quarterly data for oil demand in these countries were not available. Net imports from the CPEs were included in the balance as part of total Market Economies supply. At present, the former Soviet Union and most of the countries of Eastern Europe are in transition from communism to market economies; because of this there are no longer good political or economic reasons to publish an oil balance only for the countries that have traditionally been market economies. Beginning with the August 1992 edition, Section 2 of the International Petroleum Monthly was changed from a Market Economies oil balance to a world oil balance.

The main data issues related to this change may be summarized as follows:

Supply Data. Monthly oil supply data are available for all countries of the world. These data are used to generate Tables 1.1 to 1.4; they were used to expand the Section 2 supply table (Table 2.2) to the whole world.

Demand Data. EIA has now developed quarterly figures for world oil demand, including demand in the former CPEs; these are published in Table 3 of EIA's Short-Term Energy Outlook. The procedures involved in developing quarterly world demand numbers may be summarized as follows:

Complete monthly data are available for the 24 OECD countries. Annual demand data for all countries (about 220 countries) are presented in EIA's International Energy Annual. In 1997, the OECD accounted for about three-fifths of total world demand, the 25 largest consumers outside of the OECD accounted for about one-third of the world total, and the remaining countries (about 170 countries) accounted for less than one-tenth of the total. The key problem, therefore, is to develop good figures for the 25 largest consumers outside the OECD.

Of these 25 countries, by far the largest consumer is China, which in 1997 accounted for about one-sixth of the demand in the group of 25. The next largest consumer is Russia, which in 1997 accounted for about one-tenth of the demand in the group. Thus in 1997 China and Russia accounted for one-fourth of the demand in the group of 25. For these 2 countries, data are available on oil production and trade. The demand numbers shown in Section 2 are computed as production minus net exports. This is the same procedure used in the EIA Short-Term Energy Outlook, by the International Energy Agency in their Monthly Oil Market Report, and in other respected publications that deal with international oil markets. Note, however, that this method of computing demand ignores both refinery gain and stock changes.

For other major consuming countries outside of the OECD, quarterly demand data are developed based upon the latest available annual data, analytic judgment about current trends, and some seasonal adjustments. These are the same procedures used for the Short-Term Energy Outlook.

Stocks Data. Reliable stocks data are available for the OECD countries. Estimates of stocks for export and afloat, and of commercial floating stocks, are available. (See sources at the end of Section 2.)

For on-land stocks outside the OECD, there is little reliable data. Most estimates of on-land stocks outside the OECD are based on the theory that stocks are approximately equal to some number of days of demand. Demand figures (which themselves involve some degree of estimation) are then used to compute estimates of stock levels.

In the International Petroleum Monthly, it had been the practice for some time to estimate that on-land stocks in the traditional market economies outside of the OECD were equal to 55 days of demand. This was acceptable, mainly because the rule was used only to estimate a relatively small part of total stocks (about 16 percent).

When Section 2 was converted from a Market Economies oil balance to a world oil balance, there were important changes in the conditions that made it reasonable to estimate on-land stocks outside of the OECD using the rule of 55 days of demand. When the CPEs are included, the stocks that must be estimated are a considerably larger part of the total. In 1990, total oil demand in the former CPEs was more than 80 percent as large as demand in all of the non-OECD traditional market economies. Thus the quantity of stocks that would have to be estimated using a 55-day rule would nearly double, and the estimated components of stock levels and stock changes would become relatively large parts of the total. One consequence of this is that the statistical discrepancy (as shown in Table 2.1) would become less useful as an indicator of the overall consistency of the data. The statistical discrepancy is computed from supply, demand, and stock change. If a large part of the stock change is estimated, then the statistical discrepancy loses much of its significance.

As already noted, quarterly demands in the former Soviet Union and in China are computed as production minus net exports. This computation implicitly assumes a zero stock change. Demand in the former Soviet Union is falling. If we were to use a 55-day rule to compute stock levels, falling demand would imply falling stock levels. This would contradict the assumption of zero stock change which was used in computing demand.

In view of all this, the following approach has been adopted. Table 2.3 now shows levels of stocks for the OECD countries, levels of stocks for export and afloat, and levels of commercial floating storage. Stock changes based on these stock levels are shown in Table 2.1. At this time, no other stock levels are shown. Table 2.1 now has a single line labeled "Other Stock Draw and Statistical Discrepancy", which contains the computed values needed to make the table balance.

It may become possible in the future to obtain reliable information on certain categories of on-land stocks outside the OECD. If such data become available, they will be added to Table 2.3, and the corresponding stock change information will be added to Table 2.1.

Changes in Formats and Sign Conventions. There were several changes in Section 2 to make the International Petroleum Monthly more consistent with other EIA publications, especially with the Short-Term Energy Outlook. The numbers were changed from 1 decimal place to 2 decimal places. The word "consumption", as used before August 1992, was changed to "demand". The sign convention for stock changes in Table 2.1 was changed. Stock draws are now indicated by positive numbers, and stock additions are indicated by negative numbers. Table 2.1 also uses a new sign convention for the line labeled "Other Stock Draw and Statistical Discrepancy". The values in this line are now computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw. This is the reverse of the sign convention used before August 1992.

Summary. Section 2 was expanded from a Market Economies oil balance to a world oil balance. Supply data are tracked for all producing countries. Demand data are tracked for the 24 OECD countries, and for 25 large consumers outside of the OECD. Demand for the remaining countries (less than 10 percent of total demand) is estimated, for years that are not yet available in the International Energy Annual. The stock levels in these tables are based on reported data for the OECD and for stocks at sea. The line in Table 2.1 labeled "Other Stock Draw and Statistical Discrepancy" is a balancing item.

Appendix C

Glossary

Appendix C. Glossary

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The molecules in the series vary in chain length and are composed of a hydrocarbon plus a hydroxyl group. Alcohol includes methanol and ethanol.

Demand (Consumption/Petroleum Products Supplied). Total petroleum products supplied is the sum of all petroleum products supplied. For each product, the amount supplied is calculated by summing production, crude oil burned directly, imports, and net withdrawals from primary stocks and subtracting exports.

Crude Oil. A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface-separating facilities. Crude oil production is measured at the wellhead and includes lease condensate.

Government-Owned Stocks. Oil stocks owned by the national government and held for national security. In the United States these stocks are known as the Strategic Petroleum Reserve.

Lease Condensate. A liquid recovered from natural gas at the well or at small gas/oil separators in the field. Consists primarily of pentanes and heavier hydrocarbons (also called field condensate).

Natural Gas Plant Liquids. Products obtained from processing natural gas at natural gas processing plants, including natural gasoline plants, cycling plants, and fractionators. Products obtained include ethane, liquefied petroleum gases, (propanes, butane, propane-butane mixtures, and ethane-propane mixtures), isopentane, natural gasoline, unfractionated streams, plant condensate, and other minor quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

Oil Stocks. Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. See Explanatory Note 2.

Other Hydrocarbons. Other materials processed at refineries. Includes coal tar derivatives, hydrogen, gilsonite, and natural gas received by the refinery for reforming into hydrogen.

Oxygenates. Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, ethane, liquefied petroleum gases, petrochemical feedstocks, special naphthas, lubricants, paraffin wax, petroleum coke, asphalt road oil, still gas, and other miscellaneous products.

Processing Gain. The amount by which the total volume of refinery output is greater than the volume of input for given period of time. The processing gain arises when crude oil and other hydrocarbons are processed into products that are, on average, less dense than the input.

Processing Loss. The amount by which the total volume of refinery output is less than the volume of input for given period of time. The processing loss arises when crude oil and other hydrocarbons are processed into products that are, on average, more dense than the input.

Appendix D

Estimation Procedures

Appendix D. Estimation Procedures

Estimation procedures are used for demand numbers in many of the countries outside of the OECD, in cases where data from EIA's International Energy Annual are not yet available. Demand numbers for 1998 and earlier years, for all countries, may be found in EIA's International Energy Annual 1998, published in January 2000, which is the most recent published edition of the International Energy Annual. EIA's WORLD ENERGY database contains final demand data for all countries of the world for 1997, and preliminary demand data for all countries for 1998. Instructions for downloading this database may be found on EIA's home page (<http://www.eia.doe.gov/emeu/world/main1.html>). The status of the demand numbers shown in Section 2 of this current International Petroleum Monthly may be summarized as follows.

The OECD demand numbers are, as usual, based on the latest Quarterly Oil Statistics and Monthly Oil Statistics data from the International Energy Agency.

For countries outside of the OECD, the following approach is used. The numbers for 1997 and earlier years match the demand numbers in the WORLD ENERGY database on EIA's home page. Numbers for 1998 forward are the best available EIA estimates, based upon the best annual data currently available, analytic judgment about current trends, and some seasonal adjustments. These are the same numbers that appear in the international oil balance table in EIA's Short-Term Energy Outlook.

The two largest non-OECD oil consumers are China and Russia. For these two countries, published data are available on production and net exports. Demand is computed as production minus net exports. This is the same approach used in the Short-Term Energy Outlook, by the International Energy Agency in their Monthly Oil Market Report, and in other major publications dealing with international oil data. Note, however, that because of this computation, the demand numbers for China and Russia implicitly exclude stock draw and refinery gain.

Appendix E

Conversions

Table E1. Refined Petroleum Products Conversion Factors

Product	Barrels per Metric Ton
Asphalt	6.06
Distillate Fuel Oil	7.46
Gasoline, Aviation	8.90
Gasoline, Motor	8.53
Greases	6.30
Jet Fuel, Kerosene-type	7.93
Jet Fuel, Naphtha-type	8.27
Kerosene	7.73
Liquefied Petroleum Gas (LPG)	11.60
Lubricants	7.00
Miscellaneous Products	8.04
Naphthas	8.22
Natural Gas Liquids (NGL)	10.40
Natural Gasoline	10.00
Paraffin Oil	7.14
Paraffin Wax	7.87
Petrolatum	7.87
Petroleum Coke	5.51
Residual Fuel Oil	6.66
White Spirits	8.50

Table E2. Barrels of Crude Oil per Metric Ton, 1989-1998

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
North America										
Canada	7.453	7.186	7.186	7.186	7.186	7.186	7.186	7.186	7.186	7.186
Mexico	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965
United States	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333
Central & South America										
Argentina	7.149	7.120	7.120	7.120	7.120	7.120	7.120	7.120	7.120	7.120
Bolivia	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881
Brazil	7.268	7.056	7.056	7.056	7.056	7.056	7.056	7.056	7.056	7.056
Chile	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Colombia	7.084	7.080	7.080	7.080	7.080	7.080	7.080	7.080	7.080	7.080
Cuba	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449
Ecuador	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130
Peru	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407
Trinidad and Tobago	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084
Venezuela	6.880	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890
Western Europe										
Austria	7.082	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
Denmark	7.689	7.405	7.405	7.405	7.405	7.405	7.405	7.405	7.405	7.405
France	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332
Germany	--	--	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330
Germany, East	7.340	7.340	--	--	--	--	--	--	--	--
Germany, West	7.247	7.247	--	--	--	--	--	--	--	--
Greece	7.178	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231
Italy	6.853	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300
Netherlands	6.853	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239
Norway	7.810	7.644	7.644	7.644	7.644	7.644	7.644	7.644	7.644	7.644
Spain	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Sweden	7.247	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.623
Turkey	7.150	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
United Kingdom	7.466	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523
Former Yugoslavia	7.418	7.418	7.418	--	--	--	--	--	--	--
Croatia	--	--	--	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Serbia and Montenegro	--	--	--	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Slovenia	--	--	--	--	7.418	7.418	7.418	7.418	7.418	7.418

-- = No Production of this form of energy.

Sources: International Energy Annual 1998. DOE/EIA-0219(98) (January 2000).

Table E2. Barrels of Crude Oil per Metric Ton, 1989-1998 (continued)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Eastern Europe & Former U.S.S.R.										
Albania	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594
Bulgaria	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332
Former Czechoslovakia	6.780	6.780	6.780	6.780	--	--	--	--	--	--
Czech Republic	--	--	--	--	6.780	6.780	6.780	6.780	6.780	6.780
Slovakia	--	--	--	--	6.780	6.780	6.780	6.780	6.780	6.780
Hungary	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690
Poland	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Romania	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Former U.S.S.R.	7.270	7.270	7.270	--	--	--	--	--	--	--
Azerbaijan	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Belarus	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Georgia	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Lithuania	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Kazakhstan	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Kyrgyzstan	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Russia	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Tajikistan	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Turkmenistan	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Ukraine	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Uzbekistan	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Middle East										
Bahrain	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
Iran	7.305	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350
Iraq	7.426	7.430	7.430	7.430	7.430	7.430	7.430	7.430	7.430	7.430
Israel	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247
Jordan	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190
Kuwait	7.245	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250
Oman	7.332	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330
Qatar	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500
Saudi Arabia	7.268	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323
Syria	6.836	7.290	7.290	7.290	7.290	7.290	7.290	7.290	7.290	7.290
United Arab Emirates	7.480	7.596	7.596	7.596	7.596	7.596	7.596	7.596	7.596	7.596
Yemen	7.632	7.631	7.631	7.631	7.631	7.631	7.631	7.631	7.631	7.631

-- = No Production of this form of energy.

Sources: International Energy Annual 1998. DOE/EIA-0219(98) (January 2000).

Table E2. Barrels of Crude Oil per Metric Ton, 1989-1998 (continued)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Africa										
Algeria	7.936	8.130	8.130	8.130	8.130	8.130	8.130	8.130	8.130	8.130
Angola	7.409	7.409	7.409	7.409	7.409	7.409	7.409	7.409	7.410	7.410
Benin	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870
Cameroon	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205
Congo (Brazzaville)	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Congo (Kinshasa)	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
Cote d'Ivoire (Ivory Coast)	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Egypt	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.260	7.260
Equatorial Guinea	--	--	8.077	8.077	8.077	8.077	8.077	8.077	8.077	8.077
Gabon	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305
Ghana	--	--	--	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Libya	7.515	7.580	7.580	7.580	7.580	7.580	7.580	7.580	7.580	7.580
Morocco	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600
Nigeria	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.500	7.500
South Africa	--	--	--	--	--	--	--	--	--	7.720
Sudan	--	--	--	7.452	7.452	7.452	7.452	7.452	7.452	7.452
Tunisia	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689
Far East & Oceania										
Australia	7.855	7.868	7.868	7.868	7.868	7.868	7.868	7.868	7.868	7.868
Bangladesh	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453
Brunei	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340
Burma	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084
China	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.300	7.300
India	7.600	7.440	7.440	7.440	7.440	7.440	7.440	7.440	7.330	7.330
Indonesia	7.558	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360
Japan	7.285	7.357	7.357	7.357	7.357	7.357	7.357	7.357	7.357	7.357
Malaysia	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641
New Zealand	8.127	7.321	7.321	7.321	7.321	7.321	7.321	7.321	7.321	7.321
Pakistan	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500
Papua New Guinea	--	--	7.809	7.809	7.809	7.809	7.809	7.809	7.809	7.809
Philippines	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Taiwan	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568
Thailand	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758
Vietnam	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082

-- = No Production of this form of energy.

Sources: International Energy Annual 1998. DOE/EIA-0219(98) (January 2000).